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**FIGURE 1033**

MSSVAVLTQESFAEHRSGLVPPQIKVATLNSEESDPPTYKDAFPPLPEKAACLES AQEPAGAWGNKIRPIKASV  
ITQVFHVPLEERKYKDMNQFGEGEQAKICLEIMQRTGAHLELSLAKDQGLSIMVSGKLDAMKARKDIVARLQTQ  
ASATVAIPKEHHRFVIGKNGEKLQDLELKTATKIQIPRPDDPSNQIKITGTKEGIEKARHEVLLISAEQDKRAVE  
RLEVEKAFHPFIAGPYNRLVGEIMQETGTRINIPPPSVNRTEIVFTGEKEQLAQAVARIKKIYEEKKKKTTTIAV  
EVKKSQHKYVIGPKGNSLQEI LERTIGVSVEIPPSDSIS ETVILRGEPEKLGQALTEVYAKANSFTVSSVAAPSWL  
HRFIIGKKGQNLAKITQQMPKVHIEFTEGEDKITLEGPTEDVNVAQEQIEGMVKDLINRMDYVEINIDHKFHRHL  
IGKSGANINRIKDQYKVSVRIPPDSEKSNLIRIEGDPQGVQQA KRELLELASRMENERTKD LIEQRFHRTIIGQ  
KGERIREIRDKFPEVIINFPDPAQKSDIVQLRGPKNEVEKCTKYMQK MVADLVENSYSISVPIFKQFHKNIIGKG  
GANIKKIREESNTKIDLPAENSNS ETIIITGKRANCEAARSRLSIQKDLANIAEVEVSIPAKLHNSLIGTKGRL  
IRSIMEECGGVHIHFPVEGSGSDTVVIRGPSSDVEKAKKQLLHLAE EKQTKSFTVDIRAKPEYHKFLIGKGGKI  
RKVRDSTGARVIFPAAEDKDQDLITIIIGKEDAVREAQKELEALIQNL DNVVEDSMLVDPKHHRHFVIRRGQVLRE  
IAEYGGVMVSFPRSGTQSDKVT LKGAKDCVEAAKKRIQEI IEDLEAQVTLECAIPQKFHRSVMGPKGSRIQQIT  
RDFS VQIKFPDREENAVHSTEPVVQENGDEAGEGREAKDCDPGSPRRCDIIIIISGRKEKCEAAKEALEALVPVTI  
EVEVPFDLHRYVIGQKSGIRKMMDEFEVNIHVPAPELQSDIIAITGLAANLDRAKAGLLERVKELQAEQEDRAL  
RSFKLSVTVDPKYHPKIIIGRKGAVITQIRLEHDVNIQFPDKDDGNQPQDQITITGYEKNTEAARDAILRIVGELE  
QMVEDVPLDHRVHARIIGARGKAIRKIMDEFKVDIRFPQSGAPDPNCVITVGLPENVEEAIDHILNL EEEYLAD  
VVDSEALQVYMKPPAHEEAKAPSRGFVVRDAPWTASSEKAPDMSSSEFFPSFGAQVAPKTLPWGPKR

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**FIGURE 1034**

CCCAGCTCGGTGCTGCCGCCATCTTCTTGGAGGACAGGAGGAGAGGCGAAGGCTCCCCCTCCCCGTGATCGCTCC  
GCACTCCC GCCACCACCTGCCCTCCCGCGACCGCCTCTCTCTCTCCTCAGTGGGCACTTGTCTCCTTCTAACAAAC  
GGCCTTCCCCCCTCCAGTTACCCACCGCAAGGCGAAGATTCTCATTACCTGTTCCACTCTTATAAGCATAAGA  
AAACCGAGCTCATAAGACGAAGCTTCAAAAAGATGTCTAAGCAACAGCCAACCTCAGTTTATAAATCCAGAAACA  
CCTGGCTATGTTGGATTGCAAACCTCCCCAATCAAGTTCACCGAAAATCAGTGAAAAAGGTTTTGAGTTCACA  
CTGATGGTGGTGGTGAATCAGGTCTAGGAAAATCGACTCTCATAAACAGCCTATTCTAACTGATCTGTACCCA  
GAAAGAGTCATACCTGGAGCAGCAGAAAAATTGAAAGAACTGTCCAGATTGAGGCTTCAACTGTTGAAATTGAA  
GAGCGAGGGGTCAAGCTACGCCTGACAGTGGTAGATACCCCTGGCTATGGTGACGCTATCAACTGCAGAGATTGT  
TTTAAGACAATTATCTCCTATATTGATGAGCAATTTGAGAGGTACCTGCATGACGAGAGCGGCTTGAACAGGCGG  
CACATCATTGATAATAGGGTGCATTGTTGCTTTTACTTTATTTTACCTTTTGGACATGGACTTAAGCCCTTAGAT  
GTGGCGTTTATGAAGGCAATACACAACAAGGTGAATATTGTGCTGTGATTGCAAAAGCTGACACTCTCACCCCTG  
AAGGAACGGGAGCGGCTGAAGAAAAGGATTCTGGATGAAATTGAAGAACATAACATCAAAATCTATCACTTACCT  
GATGCAGAAATCAGATGAAGATGAAGATTTTAAAGAGCAGACTAGACTTCTCAAGGCTAGCATCCCATTCTCTGTG  
GTTGGATCCAATCAGTTGATTGAAGCCAAAGGAAAGAGGTGAGAGGCCGCTCTACCCCTGGGGTGTGTGGAA  
GTGGAGAACCCAGAGCACAATGACTTTCTGAAGCTGAGAACCATGCTCATCACCCACATGCAGGATCTCCAGGAG  
GTGACCCAGGACCTTCATTATGAAAACCTCCGTTCTGAGAGACTCAAGAGAGGCGGCAGGAAAGTGGAGAATGAG  
GACATGAATAAAGACCAGATCTTGCTGGAAAAAGAGCTGAGCTCCGCCGCATGCAAGAGATGATTGCAAGGATG  
CAGGCGCAGATGCAGATGCAGATGCAGGGCGGGGATGGCGATGGCGGGGCTCTCGGGCACCACGTGTAAAGGTGAT  
GTGCACATATCAAGAAGTCAGAGAAAACACTTTCTGGATAAAAAAGAAAACATTCAGATGCATGATCCAGCTG  
TGIGTTTTCAATCCTTGGGAGGGTGCCATCCACATTTTAAACAGTACCTGTGCTGAGAAATTAATTTTTAAAGA  
CTTTGATGTGTTTTGTATGAAGTACTTTTAACTGATGTATTTTATTGCTGTGTGTCACACTCTGTGTTTTGTGAGG  
TGAATGCTTCTCTTTTCTTTCTCCCTAACCACTAATGTTAGAATTGATTTCCAAGAAATCGGCATGTATACTTAAT  
ACTGAATTTCTTTGATTTAACTGACTTAACAACCTGACTAACCAATTGATGAGCACTCCTGATTTTTATCTAGAACA  
TTCAGATTTACCATAATGTTCTTAGTGGTAGAGGTGTGTGCCTAGTGATGTAGAAAGATACACTGACTTGGTGC  
AAGGCCATCTGCTTACCACATCACACCACTTGGAGATCTTTGCTTCTTGTCTTTATGTTGTACACAACACCTA  
AAACCAGTTTTGCTGCTATAATTCTATACTGTTGATTGCTGCGATTTTATCTGTTAAACCAATAAAACATAAT  
AGAATTTCTAATGAGATATATCTTTATACTTAAACAGCTTTTTTAGAGGTGAGTTTTAAAGAAGTCTCTTAAT  
CTGATGCTAGGTTGTTTTTAAACCCTATGCAAGAACTCACCACAAGCCACCTTTTGTAGTGTCTCCACTAA  
TACTGGTTATCCTGTGCTACAGAGAAAATCAAAGCAGTCATAAGCTCCAGTTTTCCGTAATGCAAAATAAGACTCT  
TACCTACAAAATGAGATTCCAGTGAACATAATTGGTTTTTACTCAACCAATTAATAATTTTTTAAAGGAAAAT  
AGCAGTTGGTCTATTGAGAAATCAAACCTTTTTATATTTTATACTGCACTTTAGTGTATTTCTGTCACTGTAGGT  
ATAGAAGATCTGCCTCCCCTGTGGAAATTGGGGTCTGTTGGTGGGCTTGCCCTGAAGCCTGGCTTGGGTTGAAA  
AGTGTTCGCGCCCTAAGGCCTTGGTGCCCTGAACCTCTGATGCCTACCGGGTCTCCTGATTTGAGTTTCTTTA  
AATACTCCCTTTTTGAGTAATTTTCTGATGGGAGGAAAGTAGCAGTCATCATCTTTTTGTGTGCAGGCTGTCTCA  
TTTATTTTTAGCCATTGTCGTTTCATTCTTTTGTGTAATATAAACCGTGTGTCAATGTCAAAGTGAAGACATTT  
CAAATCTGTAGCATAGGCTAGTGGGCAGGTCCGCACAGTCGAAGCCACACCTGGTCTGTTTTCTGTGCACTGTAG  
CCTTAGTGTACCTTTCTTCTTGTGCTCCTTATGGTACACTCCAGCGGTGCTTTTTTATCATTTCTACTGAA  
GTTGGGAAATTCAACCCAGAAATTGACAGATGAAAGGAGACAATGGTTGTGTAGGGAGATGGAGAAAATGCTTA  
ATCTGAGGATGAGACAGGGTTTTTCATTTTTGTGGGGCTAGAAAAACATAAAATGAGGCAGTTAAATAATAA  
TAGTTAATGAAGGTGTGCTACAGAAAATAATCTGGTGTCTTGCTAACTTTGCCCTTCACTGTGCTTAATTGTG  
AACAGCCAAAAGCTATATGTTATGGCTTATTGTGTGAAGGTAACTAAGAAGTGGTGTTCATGACTTCAGAGTAC  
ATCCATGCGGAGTCCATTATTTGAGTTTGACATTTAATAACTTTGCTGGAAAATCTGTAAAAAGAAAACAGT  
TTGCTAGTGAATAAGCCCCGCATATGTGAGTGAAAGTACTTCAGGCACGCTGCCTCCTGGTAAACAGCTATGCAGG  
GAGGGAGGACCCCACTGCTACACTTCTGATCCCTTTGGTTTTTACTACCCAAATCTAAATAGATACTTTTGATA  
ATAGATAACTGCTCTTTTACTAAGACATAGTCTCTACCTATAGAAATGTATTTTGAACACTTATTTTACACAG  
CAATTTTGTATCCATTTAAACTAACCTTTTATCAATAAAGCACTATTGTTTAGATATT



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**FIGURE 1035**

MSKQQPTQFINPETPGYVGFANLPNQVHRKSVKKGFEFTLMVVGESGLGKSTLINSFLTDLYPERVIPGAAEKI  
ERTVQIEASTVEIEERGVLRLTVVDTPGYGDAINCRDCFKTIISYIDEQFERYLHDESGLNRRHIIDNRVHCCF  
YFISPFHGHLKPLDVAFMKAHNKVNIVPVIKADTLTLKERERLKKRILDEIEEHNIKIYHLPDAESDEDEDFK  
EQTRLKASIPFSVVGSNQLIEAKGKKVRGRLYPWGVVEVENPEHNDFLKLRTMLITHMQDLQEVTDLHYENFR  
SERLKRGRKVENEDMNKDQILLEKEAELRRMQEMIARMQAQMOMQMGGDGDGGALGHV

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**FIGURE 1036**

CACCGAGCGCCCCTGGTGTCCCTCGCAGTGGACTGACGCCGAGGGGCGAGCTAGCCGGCTCCGCGCCTCTCCGC  
GGGATCCAGACGCCTCCTGGGGCTGCTGGCGGAGGGTCTGAGGCGGCGCGGCCATGGCTCACCTCCGGGGATTG  
CCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTACCAAGCTCGACCGCATTGGCAAGGGCTCGTTTGGGG  
AGGTCTACAAGGGCATCGATAACCACACAAAGGAGGTGGTGGCCATCAAGATCATCGACCTGGAGGAGGCCGAGG  
ATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTGCACAGCCCCCTACATCACCCGCTACTTTG  
GCTCTACCTAAAGAGCACCAAGCTATGGATCATCATGGAGTACCTGGGCGGCGGCTCAGCACTGGACTTGCTTA  
AACCAGGTCCCCTGGAGGAGACATACATTGCCACGATCCTGCGGGAGATTCTGAAGGGCCTGGATTATCTGCACT  
CCGAACGCAAGATCCACCAGACATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGG  
ACTTTGGGGTAGCAGGGCAGCTCACAGACACGCAGATTAAGAGGAACACATTCTGGGCACCCCTTCTGGATGG  
CACCTGAGGTTCATCAAGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCCCCTGGGGATCACAGCCATCGAGC  
TGGCCAAGGGGGAGCCTCCAACTCTGACCTCCACCCCATGCGCGTCTGTTCCTGATTCCCAAGACAGCCCAC  
CCACACTGGAGGGCCAGCACAGCAAGCCCTTCAAGGAGTTCGTGGAGGCCTGCCTCAACAAAGACCCCGATTCC  
GGCCCACGGCCAAGGAGCTCCTGAAGCACAAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCCTCACGGAGC  
TCATCGACCGCTATAAGCGCTGGAAGTCAGAGGGGCATGGCGAGGAGTCCAGCTCTGAGGACTCTGACATTGATG  
GCGAGGCGGAGGACGGGGAGCAGGGCCCCATCTGGACGTTCCCCCTACCATCCGGCCGAGTCCACACAGCAAGC  
TTCACAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAGAGGCAGCCGAGGTCCCAGTGCC  
TGTCCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACAAAGCAGAGCGGCGGGAGCGTGGGTGCGC  
TGGAGGAGCTGGAGAACGCCTTCAGCCTGGCCGAGGAGTCTGCCCCGGCATCTCAGACAAGCTGATGGTGCACC  
TGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAACCACCTGACATCCACCCGCTGAAGCGCACTGCTGTTCA  
GATAGGGGACGGAAGGTCGTTTGTGTTTTGTTCTGAGCTCCATAAGAACTGTGCTGACTTGGAAGGTGCCCTGTGC  
TATGTCGTGCCTGCAGGGACACGTCCGATCCCGTGGGCCTCACATGCCAGGTCACCAGGTCACCGTCTCCTTCCA  
CCCCTGCACTGTGCTGTTGTGCACGTACAGGGACGCTGTTCTCTATGCCCCTGCCCCTCCTCCTCTCCTGGCCCA  
GCAGTATTGCTCACGGGGGCTCCAGCCGCCGGCGTGGCCCTCATGAGCTACGCCCTGGGTCTTCTGCAGACTCATG  
CAGCCCTATGGCCGCTCAGACCAAGGCGCAGAGCAACTATCAGGGCAGCTCTGCCTCCTCCTCCCATGAGGTGGG  
GAGAGGCAACAGGGCAGCCCCCAGAGGAGTGTCTGGCCGCTGTCTCCCGGGGCCATGATGGCCATAGATTG  
CCTTGTGGTGTGGATCAGGTACTGTGTCTGCTCATAAGTACTTGTGTATCCAGAATGTTTTGTTTTTAAGAA  
AATTGAATTACTTGTTCCTGAAA

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**FIGURE 1037**

GGCACGAGGCCAATCCCATGCCTGGGGGAGAGACAGCGGCTCAGGAGTGGGGGAGCACGGGCCTTCTACACCACA  
TGGGAAGGCTCTGGCATGAGGTTTTCTTTGGGAAGGTTGTTTGGGCCCTGAAGTTCCATCTCCGAGAGTGGTG  
TGCAGGGCAGGCCAGGGCCCATGCTGGCTGCAGTCTTTGTGGCTGCCTGCCTGGGCCAGCCTGTTTGGGAGCTGG  
GACTGTGGGCTCGCCTTTTCGTACCTGGGCTCAGGTGCGGTGTGGCCACCGCCACCCTCATCCCCTGCTGGGAG  
GCTCTCCAGGGGCTGATGGGGGGTTCGTGTAGGGAGAATCAGGGCTCGGGAAGCCACGCCTGGGAAGGCAGGA  
CACAGGACACAGCAGCTTTCTTTGAAATCTCCCAGGTGAGGATTCACATCCCCAAAATAAAATTCAGAAGCCAGG  
TGGCCTGTGCTCCCCATGGGTGACCTCTGGAGGCAGTGACCAAGATGCAGCAAGGAGAGGATGCAGAACAGCTT  
CTTGACAGAAGCACCTGCTCCGGCATCCAGCGCTGCCTGGAGGCAGGAAGGAGAGGCAGGGCAGGACACGCTGGTC  
TGAGATGAGGGGGAGCCCCATGGGCCCCAGGCAGGCTAGAGGAGGCACAGGCCCTGCCACGGCCAACTCAGGTCA  
GCCAGCCTGAGGCTGTGGCCTCCAAAGGCTCTGGGCGCACCCCCAGGTGCGAGGTGTCTGAGGCCAGCCAACCT  
GCAGAGCACTCGCGCGTGGGTGGGCTGAGTGGAGGTGCCTGGGAGCTGCCTAAATTGAGAAGCTCCACTGCCA  
TGGAGACTGCCTGGCTGTGTCTCTCAGCCAGGTGCCGTGTTGGCCTTGGCTAGGACCCAGAGCCACACTGCAGC  
CTCCGCCGACTCCCTCCTTCCGGGCCTGCTCTAGTGAGGAGTGCCTAAGCCAGGACCCAGAACTCAGAGTTGAT  
GGTGAGAGGAGGCCGCTGAGTCAGGACACCTGGCTTCTTGAAAAGTTGCTCTGCCAGAAACCACCTAGGGACC  
ACGTTAGCTGCCTTCCTTGAGCTCCCCAGGAGTCCGTTTCCACATCTGTGAGGTGGAGGGCTGGTGTGGAGGTGC  
TCATGGGGTGCGGTGCTTGGGAGACAGCCAGGCCAGGGTGGCTGCTGCTTCTGCTAAGTGGGGGAGGTGAGAC  
AGATCTGGAAAGCCGTCTCCCTCAGATGGTTTTCATTTAATGCTTTATACTGCCGAGTCTGGGGGCTTGTTTGGT  
TTGGGGGCAGCCATCTCCACCAGAAAGGGGGAGCTCCTTCCGCTGCGGCTCCAGATAGATGGGGATGCCGGGCT  
CCAGGCCGACCAGCACTTGGGATCTGATGGGACACGGCCAGTGCTTAGGGGTGCCAAGTCCAAGGCCTCCCACTG  
GGAGTCATCGCTGAGAAGATGCCAATGTTTTCATCCACCGGCTGCACAGGCACAACTCCCCCACCAGGACGGCT  
GTGATGAGGTGGCCCTCCCTGTCAACCCTGGTCCCTGGAGTCCCCAGCACCTGGGGCCCTGGTGGGGCTGATGTC  
ACAGGTGTTTACTGTGCTGCTGCACTGGTCCATGCCAGCCTCACCATGTGGGGACCACGGAAGGCACACTCCC  
TTACCCCCGGTGCCGGGCCGTGCGGTCCCCCAGACGGACAGCAGCTGTGGCGACCTGCGTTTCTCCCTGGGCCTG  
TGCTTCCTGTAGTTAGTCCGTCCCTGGTTCCCTGTGGCTCAGAGGCCGCGTCCCTGGCTTGTACATATGTGAT  
TGCTGTGGGCACACCCAGACCCCATGTCATAGCTGCCGTCCCGACGTACGACGCCTGTCCCGATGTCTTACAC  
CCGAGTGTTAGCCCTAGGCTCCTGTACTGTGCGTGCACCTTAGGGCTCTGTCCAATTAAGAAATAAATGTGGCTCT  
TACTCAACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1038**

MRWPSLSTLVPGVPSTWGPGGADVIGVYCAAALVLCQPHPCGDHGRHTPLPPVPGRAVPQTDSSCGDLRFSLGLC  
FL

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**FIGURE 1039**

ATGGAGGAACGGCGGGCTCCGAGCCGCGCCCCGGAGTCCGCGAACTTCCGAGCGGGCGCCCCCTGAAGGACCTG  
ACCCGCTTCGTGGATTTCAACATCAAAGGGCGCGACGTGATCGTGTTCCTCCACATCCAGAAGACGGGGGGCACC  
ACTTTCGGCCGGCACCTGGTGAAGAACATCCGGCTGGAGCAGCCTTGTAGCTGCAAAGCGGGTCAGAAGAAGTGC  
ACCTGCCACCGGCTGGCAAGAAGGAGACGTGGCTCTTCTCCCGCTTCTCCACCGCTGGAGCTGCGGGCTGCAC  
GCCGACTGGACGGAGCTCACCAACTGCGTGCCGGCCATCATGGAGAAGAAGGACTGTCCCGCAACCACAGCCAC  
ACCAGTCCTGACCCAGAGCGACCCCGCGCTCCCTGCCCTGCCGATGGTTTCTTGGCGTCTTCAGCGGTTGGCGC  
CGTGGCTTTGGGGAGGGATGA

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**FIGURE 1040**

ATGCTAACTAGTTACGCGACCCCGAGCGGTCGGCGTCCCCCACTTCTTAGAGGGACAAGTGGCGTTCAGCCAC  
CCGAGATTGAGCAATAACAGGTCTGTGATGCCCTTAGATGTCCGGGGCTGCACGCGCGCTACACTGACTGGCTCA  
GCGTGTGCCTACCCTACGCCGGCAGGCGCGGGTAACCCGTTGAACCCATTTCGTGATGGGGATCGGGGATTGCAA  
TTATTCCCCATGAACGAGGAATTCCCAGTAAGTGCGGGTCATAAGCTTGCGTTGATTAAAGTCCCTGCCCTTTGTA  
CACACCGCCCGTCGCTACTACCGATTGGATGGTTTAGTGAGGCCCTCGGATCGGCCCCGCCGGGGTCGGCCCACG  
GCCCTGGCGGAGCGCTGA

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**FIGURE 1041**

GCGGCAACAGCGGGGCCGATGTGTAGTTGGTGACTGCCTCTCCAGATGCTGAGGTGCCTGTATCATTGGCACAGG  
CCAGTGCTGAACCGTAGGTGGAGTAGGCTGTGCCTTCCGAAGCAGTATCTATTCAATGAAGTTGCAGTCTCCC  
GAATTCAGTCACTTTTACAGAAGGACTGAAGAGTCTGACAGAATTATTTGTCAAAGAGAATCACGAATTAAGA  
ATAGCAGGAGGAGCAGTGAGGGATTATTAAATGGAGTAAAGCCTCAGGATATAGATTTTGCCACCACTGCTACC  
CCTACTCAAATGAAGGAGATGTTTCAGTCGGCTGGGATTCCGATGATAAACAACAGAGGAGAAAAGCACGGAACA  
ATTACTGCCAGGCTTCATGAAGAAAATTTTGAGATTACTACACTACGGATTGATGTCACCACTGATGGAAGACAT  
GCTGAGGTAGAATTTACAACCTGACTGGCAGAAAGATGCGGAACGCAGAGATCTCACTATAAATTCTATGTTTTTA  
GGTTTTGATGGCACTTTATTTGACTACTTTAATGGTTATGAAGATTTAAAAAATAAGAAAGTTAGATTTGTTGGA  
CATGCTAAACAGAGAATACAAGAGGATTATCTTAGAATTTTAAGATACTTCAGGTTTATGGGAGAATTGTAGAC  
AAACCTGGTGACCATGATCCTGAGACTTTGGAAGCAATTGCAGAAAATGCAAAAGGCTTGGCTGGAATATCAGGA  
GAAAGGATTTGGGTGGAACCTGAAAAAAATCTTGTGGTAACCATGTAAATCATTGATTCACCTTATCTATGAT  
CTTGATGTGGCTCCTTATATAGGTTTACCTGCTAATGCAAGTTTAGAAGAATTTGACAAAGTCAGTAAAAATGTT  
GATGGTTTTTCACCAAAGCCAGTGACTCTTTTGGCCTCATTATTCAAAGTACAAGATGATGTCACAAAATTGGAT  
TTGAGGTTGAAGATCGCAAAGAGGAGAAAAACCTTGGCTTATTTATAGTTAAAAATAGGAAAGATTTAATTAAA  
GCAACAGATAGTTCAGACCCATTGAAACCCTATCAAGACTTCATTATAGATTCTAGGGAACCTGATGCAACTACT  
CGTGTATGTGAACCTACTGAAGTACCAAGGAGAGCACTGTCTCCTAAAGGAAATGCAGCAGTGGTCCATTCTCTCA  
TTTCCTGTAAAGTGGCCATGACATCAGAAAAGTGGGCATTTCTTCAGGAAAAGAAATTGGGGCTCTATTACAACAG  
TTGCGAGAACAGTGGAaaaaaAGTGGTTACCAAATGGAAAAGATGAACTTCTGAGTTACATAAAGAAGACCTAA  
AACTGATGGCTACTAAAAAGCAGAGCATTT

GGACACCGGGCCATGCACGCCCCCAACTGAAGCTGCATCTCAAAGCCGAAGATTCCAGCAGCCAGGGGATTCTCA  
AAGAGCTCAGACTCAGAGGAACATCTGCGGAGAGACCCCGAAGCCCTCTCCAGGGCAGTCTCATCCAGACGCT  
CCGCTAGTGCAGACAGGAGCGCGCAGTGGCCCCGGCTCGCCGCGCCATGGAGCGGATCCCCAGCGCGCAACCACC  
CCCCGCCTGCCTGCCCAAAGCACCGGGACTGGAGCACGGAGACCTACCAGGGATGTACCCTGCCACATGTACCA  
AGTGTACAAGTCAAGACCGGGAATAAAGCGGAGCGAGGACAGCAAGGAGACCTACAAATTGCCGCAACGGCTCAT  
CGAGAAAAAGAGACGTGACCGGATTAACGAGTGCATCGCCAGCTGAAGGATCTCTACCCGAACATCTCAA  
TACAACCTTTGGGTCACTTGGAAAAAGCAGTGGTCTTGAACCTACCTTGAAGCATGTGAAAGCACTAACAAACCT  
AATTGATCAGCAGCAGCAGAAAAATCATTGCCCTGCAGAGTGGTTTACAAGCTGGTGAGCTGTCAGGGAGAAATGT  
CGAAACAGGTCAAGAGATGTTCTGCTCAGGTTTCCAGACATGTGCCGGGAGGTGCTTCAGTATCTGGCCAAGCA  
CGAGAACACTCGGGACCTGAAGTCTTCGCAGCTTGTCAACCCACCTCCACCGGTGGTCTCGGAGCTGCTGCAGGG  
TGGTACCTCCAGGAAGCCATCAGACCCAGCTCCCAAAGTGATGGACTTCAAGGAAAAACCCAGCTCTCCGGCCAA  
AGGTTTCGGAAGGTCTTGGGAAAAACTGCGTGCCAGTCAATCCAGCGGACTTTCGCTCACTCGAGTGGGGAGCAGAG  
CGGCAGCGACACGGACACAGACAGTGGCTATGGAGGAGAATCGGAGAAGGGCGACTTGCAGTGTAGCAGCCGTG  
CTTCAAAGTGACCACGGACGCAGGTTACGATGGGAGAAAGGATCGGCGAATTAAGCAAGAGTCCGAAGAACC  
CCCCACAAAAAGAACCGGATGCAGCTTTCGGATGATGAAGGCCATTTCACTAGCAGTGACCTGATCAGCTCCCC  
GTTCTGGGCCCACACCCACACCAGCCTCTTTCTGCCTGCCCTTCTACCTGATCCCACTTCAGCGACTGCCTA  
CTTGGCCATGCTGGAGAAGTGCTGGTATCCCACTCAGTGCCAGTGCTATACCCAGGCCTCAACGCCTCTGCCGC  
AGCCCTCTCTAGCTTCATGAACCCAGACAAGATCTCGGTCCCTTGCTCATGCCCCAGAGACTCCCTTCTCCCTT  
GCCAGCTCATCCGTCGCTCGACTCTTCTGTCTTGCTCCAAGCTCTGAAGCCAATCCCCCTTTAACTTAGAAAC  
CAAAGACTAAACICTCTAGGGGATCCTGCTGCTTTGCTTTCTTCTCGCTACTTCTTAAAGCAACAAAAAAG  
TTTTTGTGAATGCTGCAAGATTGTTGCATTGTGTATACTGAGATAATCTGAGGCATGGAGAGCAGATTACGGGTG  
TGTGTGTGTGTGTGTGTGTGTATGTGCGTGTGCGTGACATGTGTGCCTGCGTGTGGTATAGGACTTTAAAG  
CTCCTTTTGGCATAGGGAAGTACGAAGGATTGCTTGACATCAGGAGACTTGGGGGGGATTGTAGCAGACGCTG  
GGCTTTTCCCCACCCAGAGAATAGCCCCCTTCGATACACATCAGCTGGATTTTCAAAGCTTCAAAGTCTTGCT  
TGTGAGTCACTCTTCAGTTTGGGAGCTGGGTCTGTGGCTTTGATCAGAAGTACTTTCAAAGAGGGGCTTCCAG  
GGCTCAGCTCCCAACCAGCTGTTAGGACCCACCCCTTTTGCTTTATTGTGACGTGACTCACCAGACGTCGGG  
AGAGAGAGCAGTCAGACCGAGCTTTCTGCTAACATGGGGAGGTAGCAGGCACTGGCATAGCACGGTAGTGGTTTG  
GGGAGGTTTCCGCAGGTCTGCTCCCCACCCCTGCCTCGGAAGAATAAAGAGAATGTAGTTCCCTACTCAGGCTTT  
CGTAGTGATTAGCTTACTAAGGAAGTAAAAATGGGCCCTTGATACAAGCTGAGTGCACGGAGACCAACCAAGGTCTG  
AGAAATGCGGACACCCCGAGCGGAGCACCCCAAAGTGCACAAAGCTGAGTAAAGACTGCCCCCTTCAAACAGAAC  
TAGACTCAGTTTTCAATCCATCCTAAACTCCTTTTAAACAGCTTACTGTGACGGAGACCAACCAAGGTCTG  
GCACCGCCAGATCCTTTCTGTAGGCTAATTCCTCTTGCCCAACGGCATATGGAGTGTCTTTATTGCTAAAAAGGA  
TTCCGCTCCTCTTCAAAGAAGTTTATTTTGGTCCAGAGTACTTGTTTTCCCGATGTGTCCAGCCAGCTCCGCAG  
CAGCTTTTCAAATAGCACTATGCCTGATTGCTGATCGTGTTTTAACTTTTCTTTTCTGTTTTTATTTTGGTAT  
TAAGTCGTTGCCCTTTATTTGTAAAGCTGTTATAAATATATATTATATAAATATATTAAAAAGGAAATGTTTCAG  
ATGTTTATTTGTATAATTACTTGATTACACAGTGAGAAAAATGAATGTATTCTGTTTTTGAAGAGAAGAATA  
ATTTTTTTTTTCTCTAGGGAGAGGTACAGTGTATATTTTGGAGCCTTCTGAAGGTGTAAATTTGTAATATT  
TTTATCTATGAGTAAATGTAAAGTAGTTGTTTTAAATACTTAATAAAATAATTCTTTTCTGTGGAAG



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**FIGURE 1043**

GCGGCTTCCGGCGGCGTGACCTGACCGCAAGAGGCCAATGGAGTGTGGGAGCTGAAAGGGTCTTCGCTGGCGGCC  
GGTAACTGGCGGCGGTTGGGAACGGCCGAGTGTGGCTCTTCTGGTGTTCAGCTTGGGGAGAGAGGGGTGGCCCT  
CCTCTTGCAGTTGAGGCCGGCGCCGAGCCGGACTTCAGGCGGATCTCGTGGCGGAGCCCATCTTGCTCCCTCTCC  
CAGGCCCTTTACCCGCTCCCTAGGATTCCCGGGCCCTGTAGGTGGGAGTTGGGAGACGACAGTACTGCTTTTAAAG  
AGACAGTGTTAGGATCTTGGGAAGCACAGCCAACATGTGTGACATTGAAGAAGCCACTAACCAACTCCTAGATGT  
GAACCTTCATGAGAACGAGAAGTCTGTACAAGTGACAGAAAGTGACCTCGGAAGTGAATCTGAGCTTCTAGTCAC  
TATTGGAGCCACTGTACCTACTGGCTTTGAGCAAACAGCTGCAGATGAAGTCAGAGAGAACTTGGGTCATCATG  
CAAAATCAGCAGAGACCGTGGCAAGATATATTTTGTCAATTCAGTGGAAAGTCTGGCACAGGTTTATTGTCTGAG  
ATCAGTTGATAACTTATTTGTGGTGGTTCAGGAGTTTCAAGATTACAGTTCAAACAAACAAAGGAAGAAGTTCT  
AAAGGATTTTGAAGACTTGGCTGGAAACTCCCATGGTCAAACCCCTTAAAAGTGTGGAAATTAATGCCAGTTT  
TAAAAAGAAAAAGCAAAGCGCAAAAGATAAATCAGAATTCAGTAAAGAGAAGATTAAATATGGACAAGAAGT  
CAAAATCGATCAGAGAAATGTTAAAAAGAGTTCACTAGCCATGCTTTAGATTCTCATATCTTAGATTATTATGA  
AAATCCAGCCATCAAAGAGGATGTATCAACATTAATAGGTGATGATTGGCATCTTGCAAAGATGAGACTGATGA  
AAGCTCAAAAGAAGAACTGAGCCTCAAGTGTGAAGTTAGAGTCACATGCAACAGGGCAGGAGAGAAACATTG  
CTTACCTCAAATGAGGCTGCAAGAGATTTTGGGGGTGCTGTTCAAGATTATTTAAGTGGAGGCCGACATGAC  
CACTTTGATGTGGAGGTTCTTTTGAACATCCATGATAATGAAGTCATTGTGGGCATTGCATTGACTGAAGAGAG  
TCTCCACCGAAGAAATATAACACATTTTGGACCTACAACCTCTTAGATCAACTCTTGCCATATGGGATGCTCAGGCT  
CTGTGATCCTCTACCTTATGATATAATAGTCGATCCAATGTGTGGAACGGGCAATACCAATAGAGGGGGCCAC  
TGAATGGTCTGACTGTTTCCATATTGCTGGTGATAATAATCCACTGGCTGTGAATAGAGCAGCAAATAACATTGC  
ATCTTTATTGACCAAGAGCCAAATTAAGAAGGCAAACCTCTGGGGCTTGCCCATAGATGCTGTTCAGTGGGA  
TATCTGCAATCTGCCGTTGAGAACTGGCTCTGTGGATATTATTGTAACAGATTGCCATTTGGAAAAAGGATGGG  
ATCCAAGAAGAGAACTGGAACCTTTATCCAGCTTGCCACGCGAGATGAGCCGTGTCTGCACACCTACCACAGG  
CCGAGCTGTACTACTTACTCAAGACACAAAATGCTTTACCAAGGCGTTATCTGGAATGCAACAGTATGGCGAAA  
GGTGGATACAGTCTGGGTGAACGTTGGTGGTCTTCGTGCTGCAGTTTACGTTCTGATACGTACACCTCAAGCTTT  
TGTTATCCTTCAGAACAGACGGAGAAAGAGGAACTCTTTGGCAATGCAAAGAAATGAAGATGACTAATAGTACT  
TGTAATTTCCACCACTGGAAATGTTAGCATAAAAGAACTTGGAGAGGAAAAAGTATTAACAAAACCTGCAGTCTG  
CACTCTTTAAACCTGTTTAAGGCTCTTCATCCTGGTTAGCAAAAGGTGTGAATGTAATGTGATGGAATTTAAAG  
TTTTATGAGACCAGGCACAGTGGCTCACGACTGTAATTCAGCAGTTTAGGAAGCCGAAGTGTGCAGATCACCTG  
AGGTCCGGAGACCAGCCTGGCCAACATGGTGAAACCCCTGTCTCTACTAGAAATACAAAAATTAGCCAGGTGTGGT  
GGCGGGCGCCTGTAATCCCACTACTCAGGAGGCTGAGGCTAGAGAATCACTTGAACCCAGCAGGCGGAGGTTGC  
GGTGAGTCGAGATCACGCCATTGCACTCCAGCCTGTGCGACAAGAGCGAACTCTGTCTCAAAAAGATTTTATAA  
GAAAGCAGAGCTTTTCTTGAAGCTCTTTTGAAGTGGTAGCTTAATTAGTATTTTGTGAAATACTTTAAAGAT  
GCCTAGTGAAAGCCTACTAAAGTGTGTGAGATTGGGGTTTAGAACATTTTATTTTCAGGCTTTATGGCCTATT  
TTCCATTGTGTCAAGTGCAAACTACCCTGGCCCAAAGGAAGGGCAGAGAACATAATTACATCTTAGGCCACATT  
TCATTCTTTGCAGCTTTTGCTAATCCAGTTGCTCAAGTTCTTTACCTCAACCTGAAGGAATGAAGCATTATTACAT  
TTTGTGAATGGTGTTCAGCCTATAAGACGAAGTCTCACAAGACCTATAGGAAAGTTTACCATCTGCCTAAATATT  
AAAATATCCATCTGTTATTCACATTAATACACAGAATGAAAAATAGAGGTCTAGGAATTATCAAAGGTACTGCAAA  
AATACTGTATAGAACTTATTGTAAATAGCACATACATTGATAGATGGGGTGTGGGACCAACAAACCAATTA  
AGAAATTGTTTTCTTTTCAGTACACTAAGGTGTGTGTTTTCAAACC

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**FIGURE 1044**

MCDIEEATNQLLDVNLHENQKSVQVTESDLGSESELLVTIGATVPTGFEQTAADEVREKLGSSCKISRDRGKIYF  
VISVESLAQVHCLRSVDNLFVVVQEFQDYQFKQTKEEVLKDFEDLAGKLPWSNPLKVWKINASFKKKKAKRKKIN  
QNSSKEKINNGQEVKIDQRNVKKEFTSHALDSHILDYYENPAIKEDVSTLIGDDLASCKDETDSSKEETEPQVL  
KFRVTCNRAGEKHCFTSNEAARDFGGAVQDYFKWKADMTNFDVEVLLNIHDNEVIVGIALTEESLHRRNITHFGP  
TTLRSTLAYGMLRLCDPLPYDIIIVDPMC GTGAIP IEGATEWSDCFHIAGDNNPLAVNRAANNIASILTKS QIKEG  
KPSWGLPIDAVQWDICNLPLRTGSVDIIIVTDLPFGKRMGSKKRNNLYPACLREMSRVCTPTTGRAVLLTQDTKC  
FTKALSGMQHVWRKVDTVWVNVGGLRAAVYVLIRTPQAFVHPSEQDGERGTLWQCKE

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**FIGURE 1045**

GCAGGCAGGTGCCATGGGCCCGCTTGAGGCACACTGAGGGGACGCGGGGCTGGGCCATGGCCGGCGCTCGGGCCG  
CCGCCGCCGCTGCCTCGGCGGGGTCTCGGCCTCTTCAGGCAACCAGCCGCCTCAGGAGCTGGGGCTTGGGGAGC  
TGCTGGAGGAGTTCTCCCGGACTCAGTACCGGGCCAAGGATGGCAGCGGGACCGGCGGCTCTAAGGTTGAGCGCA  
TTGAGAAGAGATGTCIGGAGCTGTTTGGCCGAGACTACTGTTTCAGCGTGATTCCAAACACGAATGGGGATATCT  
GTGGCCACTATCCCCGGCACATCGTGTTCCTGGAGTATGAGAGTTCTGAGAAGGAGAAAAGACACGTTTGAGAGTA  
CCGTACAGGTGAGCAAGTTGCAAGACCTCATCCACCGCAGCAAGATGCGCCGGTGCAGAGGACGGTTTGTCTGCC  
CAGTAATCCTGTTCAAGGGCAAGCACATTTGCAGGTCGCCACACTGGCTGGATGGGGAGAGCTGTATGGACGCT  
CAGGCTACAACATATTTTTTCTCAGGGGGTGAGATGATGCCTGGGCAGATGTGGAGGACGTCACGGAGGAGGACT  
GTGCTCTTCGAAGTGGTGACACGCATCTTTTTGATAAGGTGAGAGGCTATGACATCAAGCTGCTTCGATACCTGT  
CAGTCAAATACATCTGTGACCTGATGGTGGAGAACAAGAAGGTGAAGTTTGGCATGAATGTAACCTCCTCTGAGA  
AGGTGGACAAAGCCCAGCGCTATGCCGACTTCACTCTCCTCTCCATCCCGTATCCAGGCTGTGAATTTTCAAGG  
AATATAAAGATCGGGATTACATGGCAGAAGGGCTCATATTTAACTGGAAGCAGGACTACGTTGATGCCCCATTGA  
GCATCCCCGACTTCTGACTCACTCTCTGAACATTGACTGGAGCCAGTATCAGTGTTGGGATCTGGTGCAACAAA  
CACAAAACCTACCTGAAGCTGCTGCTTTCCTTAGTTAACAGTGATGATGACAGCGGGCTGCTGGTACACTGTATCT  
CAGGCTGGGATCGGACCCCCCTCTTCATCTCCCTCCTGCGCCTTTCCTTGTTGGGCTGATGGGCTCATCCACACGT  
CCCTGAAGCCCACTGAGATCCTCTACCTCACTGTGGCCTATGACTGGTTCCCTCTTCGGGCACATGTTGGTAGATC  
GGCTCAGCAAAGGGGAGGAGATTTTCTTCTCTGCTTCAATTTTTTGAAGCATATTACCTCCGAGGAGTTCTCTG  
CTCTGAAGACCCAGAGGAGGAAGAGTTTGCCAGCCCGGGATGGAGGCTTACCCTGGAAGACATCTGCATGCTGA  
GACGAAAGGACCGTGGCAGCACCACCAGCCTTGGCAGCGACTTCTCCCTGGTCATGGAGAGTTCCCCAGGAGCCA  
CTGGGAGCTTACCTATGAGGCCGTGGAGCTGGTCCCAGCAGGAGCGCCAACTCAGGCAGCTTGGCTTGCAGCCC  
TGAGTGATCGAGAGACTCGGCTGCAGGAGGTGCGCTCAGCCTTCTTGGCTGCGTACAGCAGCACAGTGGGGCTTC  
GGGCAGTAGCCCCAGTCTTCCGGTGCCATCGGGGGCTGCTGGAGCAATTTGCCCGTGGTGTGGACTCCGGA  
GCATCAGCAGCAATGCCTTGGAAGAAGCCAGCCCATGACATTTTCTGCTCCTCTCTCAGCTGAGCCCTTAGCA  
GAGAATCAAAGCCATGCCTGGCCGAAGGGGTACTTCCAGGTGAGGGGAAATTTAGTCCCCCATCTCCATCATGA  
ACATGGCAGCCCCAAAGCTGAGCAAGGCCAAAGACAGGGTTTTCCAACCCCCAGCCTCTTGACTGGTGACCACCA  
CCCCCTTCTGTACTGTCTCCACCCACCCCATCTTGTGTTGGGATTCCCATCAACTCTCAGAACTGTGTGGGGTT  
TCCCTGGGGCCTTGTGGAAGCCATGACTTCACAAAGACCCTACCTGTCAAGTTCTTGTCTTGGGGAGGAGGGATC  
ACCTGCACTGAGAATGAGGCAGTTTGACACAGATCACAAAATAAAATCAAAGTCTTTTTGAAAAAAAAAAAAAA  
AAA

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**FIGURE 1046**

MARCRGRFVCPVILFKGKHICRSATLAGWGELYGRSGYNYFFSGGADDAWADVEDVTEEDCALRSGDTHLFDKVR  
GYDIKLLRYLSVKYICDLMVENKKVKFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFN  
WKQDYVDAPLSIPDFLTHSLNIDWSQYQCWDLVQQTQNYLKLLSLVNSDDDSGLLVHCISGWDRTPLFISLLRL  
SLWADGLIHTSLKPTIILYLTVAYDWFLFGHMLVDRLSKGEEIFFFCFNFLKHITSEEFSAKLTQRRKSLPARDG  
GFTLEDICMLRRKDRGSTTSLGSDFSLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRLQEVRSF  
LAAYSSTVGLRAVAPSPSGAIGLLEQFARGVGLRSISSNAL

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**FIGURE 1047A**

CCGGACTCGAGGTGGCCGATGTGACAGCATGGGGGTGGACTTTGATGTGAAGACTTTCTGCCACAACCTTGGCGGC  
GACTAAGCCACCATAACGAGTGCCCGGTGGAGACCTGCCGAAAGGTCTACAAGAGTTACAGTGGTATTGAGTACCA  
CCTGTACCACTATGACCACGACAACCCACCACCCCAACAACAACTCCACTCCGCAAGCACAAGAAAAAGGGGCG  
CCAGTCACGCCCAGCCAACAAGCAGTCACCCAGCCCCCTCAGAGGTCTCACAGTCACCAGGCCGTGAGGTGATGAG  
CTATGCACAGGCCACGCGCATGGTGGAGGTGGACTTGCATGGCCGCGTCCACCGCATCAGCATCTTTGACAACCT  
GGATGTGGTGTGACAGGATGAGGAAGCCCCGAGGAGGCCCTGAGAATGGCAGCAACAAGGAGAACACTGAGAC  
ACCAGCTGCTACTCCCAAGTCAGGCAACATAAGAACAAGGAGAAGCGCAAGGACTCCAACCATCACCACCACCA  
CAATGTTTTCTGCGAGCACCCTCCCAAGCTGCCAGAGGTGGTCTATCGGGAGCTGGAACAGGACACCCCTGATGC  
CCCACCCCGGCCAACTTCTATTACCGGTACATCGAGAAGTCTGCAGAGGAGCTGGACGAGGAAGTAGAGTATGA  
CATGGACGAGGAGGACTACATCTGGCTGGATATCATGAATGAGCGTCGGAAGACAGAGGGTGTAACTCCCATCCC  
GCAGGAGATCTTTGAGTACCTAATGGACCGACTGGAGAAGGAGTCGTACTTTGAGAGTCATAATAAGGCGACCC  
TAATGCGCTAGTGGACGAGGATGCTGTTTGTGTATCTGCAATGATGGTGAGTGCCAGAACAGCAATGTCTATCCT  
CTTCTGTGACATGTGCAACCTGGCCGCTGCACAGGAGTGCTACGGTGTCCCTATATCCCTGAGGGCCAGTGGCT  
GTGCCGCCGTTGCTGAGTCACCCCTCTCGTGCTGTGGATTGTGCCCTGTGCCCAACAAGGGCGGTGCCTTCAA  
GCAGACAGATGACGGGCGCTGGGCCCCATGTGGTGTGTGCCCTGTGGATCCCTGAGGTCTGCTTCGCCAACACGGT  
CTTCCTAGAGCCTATTGACAGCATTGAGACATCCCACCAGCTCGCTGGAAGCTCACCTGCTACATTGCAAAACA  
ACGGGGCTCAGGGGCGCTGCATCCAGTGCCACAAGGCCAACTGTTACACAGCTTTCCATGTGACATGCCCCAGCA  
GGCTGGCCTTTACATGAAGATGGAGCCTGTGCGGGAGACAGGCGCCAACGGCACCTCTTCAGTGTCCGCAAGAC  
AGCCTACTGCGACATCCACACGCCTCCAGGTTGACGACGCCGACTGCCTGCCCTGTCCACAGCGAGGTGAGGA  
GGATGAAGATGAGGAGGAGGATGAGGGTAAGGGCTGGAGCTCAGAGAAAGTCAAGAAGGCCAAGGCCAAGTCCCG  
GATCAAAATGAAGAAGGCACGGAAGATCCTGGCAGAGAAGCGGCAGCAGCACCTGTGGTGTGAGTGCCTGCAT  
CCCACCACACAGGCTTAGTAAATACCAACCGCCTGACCATCCAAAGGAAGAGCCAGTTTCATGCAGAGGCTGCA  
CAGCTACTGGACACTGAAGCGGCAGTCACGGAATGGGGTCCCATTGCTACGTCGCCTGCAGACACACCTGCAATC  
TCAGAGGAAGTGTGACCAAGTTGGGAGAGATTCTGAGGATAAGAACTGGGCCCTTAAAGAACAGCTCAAGTCTCTG  
GCAGCGGCTCCGGCATGACTTGGAGCGAGCTCGGCTGCTCGTGAATTGATCCGCAAGCGGGAAAAACTCAAAAG  
GGAGACGATCAAGGTTTACGAGATTGCCATGGAGATGCAGCTGACTCCTTTCTCATCCTCCTTCGCAAAACCTT  
GGAGCAGCTCCAAGAGAAGGACACAGGCAACATCTTCAGCGAGCGGTCCTCTCTGCTGAGGTACCTGACTACCT  
AGACCACATCAAAAAGCCCATGGACTTTTTACCATGAAGCAGAACTTGGAGGCTTACCCTACCTGAATTTTGA  
TGATTTTGGAGGAGACTTCAACCTCATCGTCAGCAACTGCCTCAAGTATAACGCCAAGGACACCATCTTCTACCG  
GGCAGCAGTGC GGCTTCGTGAGCAGGGTGGTGTGTGCTCCGCCAGGCCCCGCGCCAGGCAGAAAAAATGGGCAT  
TGACTTTGAGACGGGCATGCATATCCCCACAGCCTGGCTGGAGATGAGGCCACACACCACACTGAAGATGCAGC  
CGAGGAAGAGCGGCTGGTCTTGTGAGGAACAGAACCTGCCAGTGGGAAGAACAGCTAAAGCTGCTTCTGGA  
GCGGCTGGACGAAGTGAATGCCAGCAAGCAGAGTGTGGGCCGCTCACGGCGTGCAAGATGATCAAGAAAGAGAT  
GACGGCACTGCGGCGGAAGCTTGCCCATCAGCGAGAGACGGGACGTGATGGCCCTGAGCGGCATGGCCCTCGAG  
CCGGGGTAGTCTGACACCCACCCGGCAGCCTGTGACAAGGATGGGCAGACAGATAGTGGCGCAGAGGAGAGCAG  
CAGCCAGGAGACAAGCAAAGGCCCTGGGTCCCCAACATGTCTCAACCCCCGCACATGAGGTGGGCAGGAGAACCTC  
AGTTCTGTTCTCCAAAAAGAACCCGAAGACAGCTGGACCGCCCCAAGAGGCCGGGCCGCCCCCAAAAACCGGGA  
GAGCCAGATGACCCCCAGCCACGGAGGCAGTCTGTGGGGCCCCCAGCTCCCCATCATGAGTTCCCTGCGTCA  
GCGCAAGCGGGGTAGGAGCCCCCGGCCAGTTTCGAGCTCAGACAGCGACAGTGATAAGTCCACAGAAGACCCCC  
AATGGACTTACCAGCCAATGGCTTCAGCGGTGGAACCAACCAGTGAAGAAGAGTTTCTTGGTATACCGTAATGA  
CTGCAGCCTTCCCCGAGCAGCTCAGACTCTGAGTCCAGCAGCAGTAGCAGTAGCAGCGCTGCTTCAGACCGGAC  
CAGCACAACGCCCTCAAAACAAGGCCGGGGCAAAACCTCTTCTCTCGGGGCACTTTCCAGAGGACAGCAGTGA  
GGATACCTCAGGCACTGAGAATGAGGCCTACTCCGTGGCACTGGCCGCGCGTGGGCCACAGCATGGTAAGGAA  
GAGTCTGGGCGGGGAGCTGGCTGGCTGTGAGGATGAGGACTCCCCGCTGGATGCTCTGGACCTCGTGTGGGC  
CAAATGCCGAGGCTATCCATCATACCCAGCTCTGATCATTGATCCAAAGATGCCCCGAGAAGGTATGTTCCACCA  
TGGGGTTCCCATCCCTGTGCCCCCACTGGAGGTGCTGAACTTGGGGAGCAGATGACCCAGGAAGCCCGAGAGCA  
TCTCTACCTCGTCTCTTCTTTGACAACAACGAACCTGGCAGTGGCTGCCAGGACCAAGCTGGTTCTCTGGG  
TGTGAACCAGGACCTAGACAAGGAGAAGATGCTGGAGGGCCGCAAGTCCAACATCCGCAAGTCAGTACAGATCGG

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**FIGURE 1047B**

CTACCACAGGGCTCTGCAGCACCGCAGCAAGGTGCAAGGCGAGCAGAGCAGTGAGACCAGCGATAGTGATTGATA  
CTGCTCAACACAGCCCAACCTATAGTGCCCTGTGACTTCTCTCCTCCCCCTTTGCTCACTGTCCGGAGTGGCACC  
GGCCTCTGCACTGACTCATTCTGGTCTTGGGGCCAGTCTCAGGGGAAGCTGGGTGGGGGAGGTCCCTCCTGCCC  
TAAGTGCAGCTGGACTGTACAGAACAACCTCCAAGGGCCAATGGCAGTTCAGCGCAAGGAGAGGGAGGGCCACAGG  
TCAGAAAAAGCTCCAGAGACCTCACAGCATTGTAGGGCGGGGTGGTGGGCCAAAGTTAGGACACTGCGTAAAAACA  
GGCCATCCCACCACCTCTACCTGCTCATGCCAGGAGAATCCATAACTGCCTAGAGGCCTGGGGCCCCTACCGGTC  
GTGAGGTGAGTGGGCATCTGTCCAGCCTGGAAGAGGGGCACTAGGTGACTCCCTCCCCTGCTGTTGTAAATACTG  
TAATTATCGGAGAATTTAAATTATTCTCATTGTAACTGCGTTTCCGGGTCGCGCCAGAGTCATTTGGTACTAAA  
AAAAAAAAAAAAAAGACTGGGGGCTGTCCCCATTTCCCTTCTCTTTCCCATAGATTCCCCACCTTTCAAACCTG  
GTTTGTATTTATTTCAAAGGAAGAAAAATATATTGATTCTTAGAAAAATAA

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**FIGURE 1048**

MGVDFDVKTFCNHLRATKPPYECPVETCRKVYKSYSGIEYHLYHYDHDNPPPPQQTPLRKHHKKKGRQSRPANKQS  
PSPSEVSQSPGREVMSYAQAQRMVEVDLHGRVHRISIFDNLDVVSEDEEAPPEAPENGSNKENTETPAATPKSGK  
HKNKEKRKDSNHHHHHNVSASTTPKLPÉVVYRELEQDTPDAPPRPTSYYRYIEKSAEELDEEVEYDMDEEDYIWL  
DIMNERRKTEGVSPIPQEIFEYLMRLEKESYFESHNKGDPNALVDEDAVCCICNDGECQNSNVILFCDMCNLAV  
HQECYGVPIYIEGQWLCCRCLQSPSRAVDCALCPNKGGAFFKQTDGGRWAHVVCALWIPEVCFANTVFLEPIDSIE  
HIPPARWKLTCYICKQRGSGACIQCHKANCYTAFHVTCQQAGLYMKMEPVRETGANGTSFSVRKTAYCDIHTPP  
GSARRLPALSHSEGEDEDEDEDEEGKGSSEKVKKAKAKSRIKMKKARKILA EKRAAAPVVSVP CIPPHRLSKIT  
NRLTIQRKSQFMQRLHSYWT LKRQSRNGVPLLRRLQTHLQSQRNCDQVGRDSEDKNWALKEQLKSWQRLRHDLER  
ARLLVELIRKREKLKRETIKVQQIAMEMQLTPFLILLRKLTLEQLQEKTGNIFSEPVPLSEVPDYLDHIKKPMDF  
FTMKQNLEAYRYLNFDDFEEDFNLI VSNCLKYNAKDTIFYRAAVRLREQGGAVLRQARRQAEKMGIDFETGMHIP  
HSLAGDEATHHTEDAEEEEERLVLENQKHLPVEEQLKLLERLDEVNASKQSVGRSRRAKMIKKEMTALRRKLAH  
QRETGRDGPERHGPSSRGS LTPHPAACDKDGQTD SAAE SSSQETSKGLGPNMSSTPAHEVGRRTSVLFSKKNPK  
TAGPPKRPGRPKNRESQMTPSHGGS PVGPPQLPIMSSLRQRKRGRSPRPSSSSSDSDKSTEDPPMDLPANGFS  
GGNQPVKKSFLVYRNDCSLPRSSSDSESSSSSSSSAASDRTSTTPSKQGRGKPSFSRGTFFPEDSSEDTSGTENEA  
YSVGTGRGVGHSMVRKSLGRGAGWLSEDEDSPLDALDLVWAKCRGYPSYPALIIDPKMPREGMFHHGVPIPVPL  
EVLKLGEQMTQEAAREHLYLVLF FDNKRTWQWLPRTKLVPLGVNQDL DKEKMLEGRKSNIRKSVQIAYHRAHQHRS  
KVQGEQSSETSDSD

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**FIGURE 1049**

GTACCCCCATCCTTTCTCTCGCCCCCTCCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCCGCCAAGCTCCGCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC  
CTCTAGCGGCTTTGCTCGAGGGCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGGCCGCCATAGCCAGTTCGGGGGCGGTTGCTCACATCGACCGGAACCTCCC  
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGACGAGGAGGTAGAGGGGGCGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCCAGGGAGCTCC  
ACAGGATCCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCTTGCACTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCTGCGAGCTGGAGCTGGAGACCTGCTGTCTTCTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA  
CCCAGATCCTCACCGACTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACCTTG  
GAGCTCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC  
CAGGACGGCCCAAATCCAAAACCTTCAGCCCAAGATCCAGGAATATGAATCACTGATGACCCTATCGACGTGC  
CACGGATCCCCAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGAGCCCTACTGTGCTGACATCACACGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG  
GGAAGCACTACTCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCTCGCAATCAGAACAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACCTAGTGCCCAACCGCACCAAGAAGCACGACCTGC  
TGAGGCTGGCAAAGGAGGAGGTGAGCCGGCAGGAGCTGAGGCAGCGGGTGCGCATGGCTGACAACGAGGTGATGG  
ACGCCTTTCGCAAGATCATGGCTGCCCGGCAGAAGAAGCGGACTCCACCAAGAAAGAAAGGACCAGGCCTGGA  
AGACTCTGAAGGAGCGTGAGAGCATCCTGAAGCTGCTGGATGGGTAGCCCTCACCCCTGCCTCAGGCTGATTATC  
TGGCCTAGGGGAGGGGAAGGGAGGCCCACTTCCTTCTTTGGGCACAGGAAACATTGGCCTGTGGCTGTCCCTCAA  
ATGGCGGCAGTCTCTAGAGGGCCGTGGCCCTTCCCTGAGGTCTTTGGCCTAGCTCTGTACAACCAGGACACAG  
GAAGCCCTGCTGGGCTAGCCTGAGGCCTAGTCTCTGCTTGGTCCCGAGATGGGGTTGGAGGGGACTTCGTTTCT  
GGGTCTTCTCTTCCCTCTTTACCATCCCCCACTCCCTAATCCCTACCCCTGTCTCCCTTCAAGGACTTCTC  
CCTTGIGGTTTTGTAAAGTGCAAACTTAAGAATAAAGTGACTGCTGTGGTTTTTCAAAAAAAAAAAAAA



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**FIGURE 1050**

MSELKDCPLQFHDFKSV D H L K V C P R Y T A V L A R S E D D G I G I E E L D T L Q L E L E T L L S S A S R R L R V L E A E T Q I L T D W Q  
D K K G D R R F L K L G R D H E L G A P P K H G K P K Q K L E G K A G H G P G P G R P K S K N L Q P K I Q E Y E F T D D P I D V P R I P K N D A  
P N R F W A S V E P Y C A D I T S E E V R T L E E L L K P P E D E A E H Y K I P P L G K H Y S Q R W A Q E D L L E E Q K D G A R A A A V A D K K K G L  
M G P L T E L D T K D V D A L L K K S E A Q H E Q P E D G C P F G A L T Q R L L Q A L V E E N I I S P M E D S P I P D M S G K E S G A D G A S T S P R  
N Q N K P F S V P H T K S L E S R I K E E L I A Q G L L E S E D R P A E D S E D V L A E L R K R Q A E L K A L S A H N R T K K H D L L R L A K E E V  
S R Q E L R Q R V R M A D N E V M D A F R K I M A A R Q K R T P T K K E K D Q A W K T L K E R E S I L K L L D G

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**FIGURE 1051**

GTACCCCCATCCTTTCTCTCGCCCCCTCCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCGCGCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC  
CTCTAGCGGCTTTGCTCGAGGCCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAACCTCCC  
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGACGAGGAGGTAGAGGGGGCGGGGTTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCCAGGGAGCTCC  
ACAGGATCCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCCCTTGCACTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCCTGCAGCTGGAGCTGGAGACCTGCTGTCTTCTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA  
CCCAGATCCTCACCGACTGGCAGGATAAGAAAGGTGACAGACGATTCTTGAAGCTGGGTGAGACCATGAACCTTG  
GAGTCCCCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC  
CAGGACGGCCCCAAATCCAAAAACCTTCAGCCCAAGATCCAGGAATATGAATCACTGATGACCTATCGACGTGC  
CACGGATCCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGGAGCCCTACTGTGCTGACATCACACGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG  
GGAAGCACTACTCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGTGTAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGACGCGCCTCCTGCAGGCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCCTCGCAATCAGAACAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACCTTAGTGCCCAACCCGACCAAGAAGCACGACCTGC  
TGAGGTGAGCGGTTAGCAGGATGCACAGTCCCGGGGGTGGCCTTGAGGCTGTGGCCACGGCTAGTCACCTTTTCAG  
GGGTTTTACAACAGGCTTTTCCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGGC  
CAGTCCACCGGGTATGTCCCAAACAAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA  
TTTGATTTGTTTTTGTGTTTTTTTTTTGAGAGGGAGTCTCGCACTGTACCCAGGCTGGAGTGCACTGGCATG  
ATCTCGGCTCACTGCAAGCTCCGCCTCCAGGTTGATGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGATACT  
ACAGGCACCCACCACCGCCAGCTAATTTTTTGTATTTTGTAGAGACGGGGTTTACCGTGTAGCCAGG  
ATGGTCTCGATCTCCTGACCTCGTGATCCACCCGCTCGGCCCTCCAAAGTGCCGGGATTACAGGCGTGAGCCAC  
TGCGCTGGCCTAGTTTGTTTTTAATTATGGTAAAGGCATAATATAAAATGTATCTCCATGGGAGGCTGAGGC  
AGGAGAATCAGTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGACTGCACCATTCAGCTTGGGCAA  
CAAGAGTGAACTGCATCTCAAAAAAAAAAAGAAAAAAATTTACGCTTCTTAACCATTTTTAAGTGTACAGTTT  
AGTAGTGTACCCATATTCACATTGTTGTGTGATTTATTTTTTGTCTTTTCATGCTTCTTTTCTTTTATCCCCA  
AAGTTTTGTTATTAATAATTTGATACACAGAAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCCA  
CTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1052**

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQ  
DKKGDRRFLKLGRDHELGAAPPKHGKPKKQKLEGKAGHGPGPGPRPKSKNLQPKIQEYEFTDDPIDVPRIPKND  
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGARAAAVADKKKGL  
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLLOALVEENIISPMEDSPIPDMSGKESGADGASTSPR  
NQNKPFVSPHTKSLESRIKEELIAQGLLESEDRPAEDSEDEVLAELRKRQAEKALSARNRTKKHDLR

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**FIGURE 1053**

GTACCCCATCCTTTCTCTCGCCCTCCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT  
CTCGGCGGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC  
CTCTAGCGGCTTTGCTCGAGGCCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC  
CCGCCCCCGCGTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAACTCCC  
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGCAGCGAGGAGGTAGAGGGGGCGGGGTCGCACTAGGGT  
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGCCAGCCATTAAACAGTCCC  
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCCAGGGAGCTCC  
ACAGGATCCCCATATCTGGGGCCATGAGTGAGTTGAAAGACTGCCCCCTTGCAAGTTCCACGACTTCAAGTCTGTGG  
ATCACCTGAAGGTCTGTCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC  
TGGACACCCCTGCAGCTGGAGCTGGAGACCTGCTGTCTTCTGCCAGCCGGCGCCTGCGTGTGCTTGAGGCCGAAA  
CCCAGATCCTCACCGACTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG  
GAGCTCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC  
CAGGACGGCCCAAATCCAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTGATGACCTATCGACGTGC  
CACGGATCCCCAAAATGATGCCCCCAACAGGTTCTGGGCTTCAGTGAGCCCTACTGTGCTGACATCACACGCG  
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG  
GGAAGCACTACTCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGGCAGCGGCTG  
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA  
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCCC  
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCCTGACATGTCTGGGAAAGAATCAGGGGCTG  
ACGGGGCAAGCACCTCCCCTCGCAATCAGAACAAGCCCTTCAGTGTCGCGCATACTAAGTCCCTGGAGAGCCGCA  
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGCAGAGGACTCCGAGGATGAGGTCC  
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACTTAGTGCCCAACCCGCACCAAGAAGCACGACCTGC  
TGAGGTGAGCGTTAGCAGGATGCACAGTCCCGGGGTGGCCTTGGAGGCTGTGGCCACGGCTAGTCACCTTTTACG  
GGGTTTTACAACAGGCTTTCCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGGC  
CAGTCCACCGGTATGTCCCAAACAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA  
TTTGATTGTTTTTTGTTTTTTTTTTTTGAGAGGGAGTCTCGCCTGGGCAACAAGAGTGAACTGCATCTCAA  
AAAAAAGAAAAAAATTTACGCTTCTTAACCATTTTTAAGTGTACAGTTTAGTAGTGTTACCCATATTACAT  
TGTTGTGTGATTTATTTTTGTCTTTTCATGCTTCTTTCTTTTATCCCCAAAGTTTTGTTATTAATAATTTGA  
TACACACAGAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCACCTAAAAA

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**FIGURE 1054**

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRRLRVLEAETQILTDWQ  
DKKGDRRFLKLGRDHELGAAPPKHGKPKKQKLEGKAGHGPGPGGRPKSKNLQPKIQEYEFTDDPIDVPRIPKNDA  
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGAARAAVADKKKGL  
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLLOALVEENTISPMEDSPIPDMSGKESGADGASTSPR  
NQNKPFVSPHTKSLESRIKEELIAQGLESSEDRPAEDSEDEVLAELRKRQAEKALSAHNRTKKHDLR

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**FIGURE 1055**

CAGCCAGCGCCCGCGATGACTGCCACTCTCCGCCCCTACCTGAGTGCCGTGCGGGCCACATTGCAGGCTGCCCTC  
TGCCTGGAGAACTTCTCCTCCCAGGTTGTGGAACGACACAACAAGCCGGAAGTGGAAGTCAGGAGTAGCAAAGAG  
CTCCTGTTACAACCTGTGACCATCAGCAGGAATGAGAAGGAAAAGGTTCTGATTGAGGGCTCCATCAACTCTGTC  
CGGGTCAGCATTGCTGTGAAACAGGCTGATGAGATCGAGAAGATTTTGTGCCACAAGTTCATGCGCTTCATGATG  
ATGCGAGCAGAGAACTTCTTTATCCTTCGAAGGAAGCCTGTGGAGGGGTATGATATCAGCTTCTGATCACCAAC  
TTCCACACAGAGCAGATGTACAAACACAAGTTGGTGGACTTTGTGATCCACTTCATGGAGGAGATTGACAAGGAG  
ATCAGTGAGATGAAGCTGTCAGTCAATGCCCCGTGCCCGCATTGTGGCTGAAGAGTTCCTTAAGAATTTTTAAACC  
ATCTGGCTGGATCTCGTGGCCCTCCCCCTCAGACTACCCATGTCTCCACGAAGGCGTCCTGGAGTCACTCCCCGA  
GCAGCGCGGCGGCGGCAGGGAGTTGGGTTGGGGTGGGCATTGATGCGGGAGGTGGGTGGTGTGCTTGCTAGCTG  
GGCAAGAAAGCAGCAGTGGACCTGCCCCAAGGCCACACGTGCCTGGTCAGGCTGGCTTCTGATGTTTCAGTCCCCT  
GGGCCGGGACAGATTTTTTTTAACTCTTGAACTTAACTCTGTGCTTGTA

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**FIGURE 1056**

MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLQPVTISRNEKEKVLIEGSINSVRVSIA  
VKQADEIEKILCHKFMREFMMRAENFFILRRKPVEGYDISFLITNFHTEQMYKHKLVDFVIHFMEEIDKEISEMK  
LSVNARARIVAEFLKNE

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**FIGURE 1057**

GCCTGCCTCTTCCAGAGAGACTCCCCATTGCTGTCTCTTGTGTGTGTCATGCACAAGGAAGGCTTGGTTGTGTG  
CCAGGATAAGGGGCACAAGGGCCTCGGGTGTGGCCAGAGACCCCATGCTTAAGCTTTTATGGTATAGGTCAGGCT  
GCAGGGGTTTGTAGGGCCTCAGTTGTATATCAGAATCTTCAGAGCACTGCGATGTTTCAGGGGTGAGTCAGGCTCTGT  
AGATGTGCACGGGTCTTCTGAAGGGTCAGTTTCTGTAACTACTTTCAGGTGTGTCAGGGCCTTGTGCAGTAACA  
GTGCACACAGAAGTTAGTGTCTTGTGGGCTAAGGGTTGTAGCTCTGTATCAGGATTCTGGGAGTGGGTCTGGAT  
TTCTGGTGTGTGGACTTAAGAAGCTGTGTGAGACTTGGGGGAGGGGCGTTCATGTATAACTGGGTTCACATAGGC  
CAAGACTCCCAGGTGCATTTTAGGCAGAGCCTCAGGTGTGTTAGAGGTCCCAGGGGCAGAGAGGCTATAGGTGCT  
GTCAGAGGCCTTGGGGACATTTAGGGCAGAGCCTCGAGTGACAGGTCTGGGACAGTGGGAGCCAAGGGCAAGTG  
CTAGAGTTGCAGTGAATTTAGAGCAAAGCCTCAGCTAAGTGACACATCCAGGGCAGTAGGGGATCTATCTAGGT  
TCGTGCTGGGCCTCAGGTAAGTGACAGGCCTTAGGACAATGGGGGCTGTGGCATGCGTCAGGTTACCTGCCTTGA  
TATGGGATCGTGACAGGCCCTCCCTATGTGCAGGAGACAAGCAGCCCAAGAAACAGGAGAAAAACCCAGTGTGTG  
GTGTCCCCAGAGTTTGTGGATGAAGCTCTGTGTGCGTGCGAGGAGTACCTTAGCAACTTGGCCACATGGACATC  
GACAAGGACCTGGAGGCCCCGCTGTACCTCACCCCGAGGGCTGGTCCCTCTTCCTCCAGCGCTACTACCAAGTG  
GTCCACGAAGGGGCAGAACTCAGGCACCTCGACACTCAGGTCCAGCGCTGTGAGGACATCTGCAGCAGCTGCAG  
GCCGTGGTACCCAGATAGACATGGAAGGGGATCGCAACATCTGGATCGTGAAGCCAGGAGCCAAGTCCCGCGGA  
CGAGGCATCATGTGCATGGACCACCTGGAGGAGATGCTGAAGCTGGTGAACGGCAACCCCGTGGTGATGAAGGAC  
GGCAAGTGGGTGGTGCAGAAGTATATTGAGCGGCCCTCCTCATCTTTGGCACCAGTTTGACCTCAGAGAGTGG  
TTCTTGGAACCTGACTGGAACCCACTTACCGTGTGGTCTTACC GCGACAGCTATATCCGCTTTTCCACGCGAGCCC  
TTCTCCCTGAAGAACCTGGACAACCTCAGTGCACCTGTGCAACCACTCCATCCAGAAGCACCTGGAGAACCTATGC  
CATCGGCATCCACTGCTTCCGCCAGACAACATGTGGTCTAGCCAGAGGTTCCAGGCCACCTGCAGGAGATGGGT  
GCCCCAAATGCTTGGTCCACCATCATCGTGCCTGGCATGAAGGATGCTGTGATCCACGCACCTTCAGACCTCCCAG  
GACACCGTGCAGTGTGGAAGGCCAGCTTTGAGCTCTATGGCGCTGACTTCGTGTTGCGGGAGGACTTCCAGCCC  
TGGCTGATTGAGATCAACGCCAGCCCCACGATGGCACCTCCACAGCAGTCACTGCCCGGCTCTGTGCTGGCGTG  
CAAGCTGACACCCTGCGCGTGGTCATTGACCGGATGCTGGACCGCAACTGTGACACAGGAGCCTTTGAGCTCATC  
TATAAGCAGCCCGTCACCACTTCCCCAGCCTCCACACCAAGGCCAGCTGCCTTCTCCCCATGTACTCCGACACC  
AGGGCCAGGTCTCAGACGACAGCACAGCAAGCTGGTGGGCACTAAGGCCCTGTGACCACAGGCAAGGCCTTGA

GGACTCTACCCACGGCTAAGGTCTTCATTTCCCTCCACCGAACCTTGATTTCAGGTGGCACCCAGCATCCTGA  
AGCCAAGAAAGGTGGGCCTCGACCTGTGACTCACACCCAGTGGACAGTGCTGAGCACGGGGTCAGGGCTGGAGGG  
CACAGGCAGAGGGCAGTCCCAGGCTGGCTGGCACCCCAAGGGAAGAGCTGGTCTCCCTCAGAAGCCCCCTTCTC  
CACAGACTTCTGATCATCTCCCTCTTCTCCCTCCTTTACACCGAGGCTCCTGCTCTCTGTGCTCCGAGGCC  
CCCAGCTGGAAGTGCCCTTGTGCTCTGCCCTTTGAAGTCGGAACAATTCTAGCACCTGTGGAAGGTCAAGGC  
CAAAGGCAAATTCAAGGCCAGACTGTGACAAACCCAGGGCTGAGGCCTGCCCATGAAGAGGCTGAGCCCCCTGA  
AACCCCTGCCCTTGTGTGTACATTCCAGAGGCGCAGGGGCTGGGGGATATGAAGCTAGGGAAGCCCCCTGCTTC  
GATTCCTCCACTGCCCTTGTCTGGATCCAACACCAATAAAAAGAAACAAGTGAAGTAAAAAAAAAAAAAAAAAAA  
AAA



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**FIGURE 1058**

MDIDKDLEAPLYLTPEGWSLFLQRYYQVVHEGAELRHLDTQVQRCEDILQQLQAVVPQIDMEGDRNIWIVKPGAK  
SRGRGIMCMDHLEEMKLKLVNGNPVVMKDGKWVQKYIERPLLI FGTKFDLRQWFLVTDWNPLTVWIFYRDSYIRFS  
TQPFSLKNLDNSVHLCNNSIQKHLENSCHRHPLLPDNDMWSSQRFQAHLEMGAPNAWSTIIVPGMKDAVIHALQ  
TSQDTVQCRKASFELYGADFVFGEDFQPWLEINASPTMAPSTAVTARLCAGVQADTLRVVIDRMLDRNCDTGAF  
ELIYKQPVTTSFASPTRPSCLLPMYSDTRARSSDDSTASWWALRPCRPQARP

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**FIGURE 1059**

GTCTGGCTCGGGAGATGGACGGCCGCCGTGTTTTGGGCCGGTTCTGGAGTGGCTGGCGGCGGGGCTGGGTGTC  
CGCCCAGTGCCCGAGGACGCAGGCTTTGGCACC GAAGCCCGGCATCAGAGGCAACCCCGGGCTCCTGCCAACGG  
TCGGGGCCCCCTCGGGGACCAGCCCTTCGCGGGGGCTGCTGCCAAAAACCTCAGTCGGGAGGAGCTGGTTGATGCG  
CTGCGGGCAGCCGTGGTGGACCGGAAAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGC  
CAGTCCCTAGGGCTCAGGGAGCAGGAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTA CT  
CTCTCCAGCTGTCCCCAGACAGCTAGTCGCCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCAAAGGCCACA  
GCCACCTACTGTGCTGTCACTGATGGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAA  
CACATTGATGGGGTCAATCTCACAGTTCCAGTGAAGGCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAG  
ACTCTCAGTCACTTTCGTGTGGTAGCCACAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTT  
TCCAGTCAACTACAGGTGCACATGGTACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCGTGTG  
GGCACTGTCTGGGCCAGCGATTTCTGCTGCCAGCTGAGAACAAAGCCCCAAAGACAGGTCCTGGATGAAGCC  
CTCCTCAGACGCCTCCACCTGACCCCTCCCAGGCTGCCAGCTGCCCTTGACCTCCACCTACATCGGCTCCTT  
CTCCCAGGCACCAGGGCCAGGGACACCCCTGTTGAGCTCCTGGCACCCTGCCCCCTTATTTCTCCAGGACCCTA  
CAGTGCTTGGGGCTCCGCTTACAATAGTCCCTCCTGTTCTGACCCCTCACACACACTGGAAAGTGAGGGTG  
GGGGCTCTGCAGTCAGACAAACCTAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGT  
AACTTTACCTCTCTGGACTTGTGATAATAAAAGTTCCTACCTC

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**FIGURE 1060**

ATAGGGTCAGTGGGCCGCTTGGCGGTGTCGTTGCGGTACCAGGTCCGCGTGAGGGGTTTCGGGGGTTCTGGGCAGG  
CACAATGGCGTCTCGAGCAGGCCCGCGAGCGGCCGGCACCGACGGCAGCGACTTTCAGCACCGGGAGCGCGTCGC  
CATGCACTACCAGATGAGTGTGACTCTCAAGTATGAAATCAAGAAGCTGATCTACGTACATCTGGTCATATGGCT  
GCTGCTGGTTGCTAAGATGAGCGTGGGACACCTGAGGCTCTTGTCACATGATCAGGTGGCCATGCCCTATCAGTG  
GGAATACCCGTATTTGCTGAGCATTTTGCCCTCTCTCTTGGGCCTTCTCTCCTTTCCCCGCAACAACATTAGCTA  
CCTGGTGCTCTCCATGATCAGCATGGGACTCTTTTCCATCGCTCCACTCATTTATGGCAGCATGGAGATGTTCCC  
TGCTGCACAGCAGCTCTACCGCCATGGCAAGGCCTACCGTTTCCTCTTTGGTTTTTCTGCCGTTTCCATCATGTA  
CCTGGTGTTGGTGTGGCAGTGCAAGTGCATGCCTGGCAGTTGTACTACAGCAAGAAGCTCCTAGACTCTTGTTT  
CACCAGCACACAGGAGAAGAAGCATAAATTGAAGCCTCTTTGGGGTGAAGCCTGGACATCCCATCGAATGAAAGGA  
CACTAGTACAGCGGTTCCAAAATCCCTTCTGGTGATTTTAGCAGCTGTGATGTTGGTACCTGGTGACAGCAGGC  
CAAAGTTCTGGAAAGCTCCTTTTGCCATCTGCTGAGGTGGCAAACTATAATTTATTCCTGGTTGGCTAGAACTG  
GGTGACCAACAGCTATGAAACAAATTTAGCTGTTTGAAGTTGAACTTGAGGTTTTCTTTAAGAATGAGCTTC  
GTCCTTGCTCTACTCGGTCATTCTCCCCATTTCCATCCATTACCCCTTAGCCATTGAGACTAAAGGAAATAGGG  
AATAAATCAAATTACTTCATCTCTAGGTCACGGGTCAGGAAACATTGGGCAGCTGCTCCCTGGCAGGCTGTGG  
TCTCCTCTGCAAAGCATTTTAATTAAAAACCTCAATAAAGA

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**FIGURE 1061**

MASRAGPRAAGTDGSDFOHREERVAMHYQMSVTLKYEIKKLIYVHLVIWLLLVAKMSVGHLRLLSHDQVAMPYQWE  
YPYLLSILPSLLGLLSFPRNNISYLVLSMISMGLFSIAPLIYGSMEMFPAAQQLYRHGKAYRFLFGFSAVSIMYL  
VLVLAVQVHAWQLYYSKKLLDSWFTSTQEKKHK

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**FIGURE 1062**

GGAAGTTGAGCGGCGGCAAGAAATAATGGCGGCAGCTACGGGGGATCCTGGACTCTCTAAACTGCAGTTTGCCCC  
TTTTAGTAGTGCTTGGATGTTGGGTTTTGGCATGAGTTGACCCAGAAGAAGCTGAACGAGTATCGGCTGGATGA  
AGCTCCCAAGGACATTAAGGGTTATTACTACAATGGTGACTCTGCTGGGCTGCCAGCTCGCTTAACATTGGAGTT  
CAGTGCTTTTGACATGAGTGCTCCCAACCCAGCCCGTTGCTGCCAGCTATTGGAACACTGTATAACACCAACAC  
ACTCGAGTCTTTCAAGACTGCAGATAAGAAGCTCCTTTTGAACAAGCAGCAAATGAGATATGGGAATCCATAAA  
ATCAGGCACTGCTCTTGAAAACCTGTACTCCTCAACAAGTTCCTCCTTGACATTGTCAGATCTAAAGAAGTA  
CCACTTCTACTATTGGTTTTGCTATCCTGCCCTCTGTCTTCAGAGAGTTTACCTCTCATTGAGGGGCCAGTGGG  
TTTGATCAAAGGTTTTCACTAAACAGATTGAAGCACTAGAGTGTGCATATGATAATCTTTGTCAAACAGAAGG  
AGTCACAGCTCTTCCTTACTTCTTAATCAAGTATGATGAGAACATGGTGCTGGTTTTCTTGCTTAAACACTACAG  
TGATTTCTTCCAAGGTCAAAGGACGAAGATAACAATTGGTGTATATGATCCCTGTAACCTAGCCCACTACCCTGG  
ATGGCCTTTGAGGAATTTTTTGGTCTAGCAGCCACAGATGGAGTAGCAGTTTCCAGTCTGTTGAAGTTGTTG  
CTTCCGTGACCGTACCATGCAGGGGGCGAGAGACGTTGCCACAGCATCATCTTCGAAGTGAAGCTTCCAGAAAT  
GGCATTTAGCCCAAGATTGTCCTAAAGCAGTTGGATGGGAAAAGAACCAGAAAGGAGGCATGGGACCAAGGATGGT  
GAACCTCAGTGAATGTATGGACCTAAAAGGTTAGCTGAGTCATCAGTGGATCTAAATCTCAAACCTGATGTGTTG  
GAGATTGGTTCCTACTTTAGACTTGACAAAGGTTGTGTCTGTCAAATGTCTGCTGCTTGAGCCCGGCACCTTGGG  
TTGGAATGTAGCTAGGACGTTGATGGGTGGGGCGTGAGACACATCACATTTGTGGACAATGCCAAGATCTCCTA  
CTCCAATCCTGTGAGGCAGCCTCTCTATGAGTTTGAAGATTGCCTAGGGGGTGGTAAGCCCAAGGCTCTGGCAGC  
AGCGGACCGGCTCCAGAAAATATTTCCCGGTGTGAATGCCAGAGGATTCAACATGAGCATACCTATGCCTGGGCA  
TCCAGTGAACCTCTCCAGTGTCACTCTGGAGCAAGCCCGCAGAGATGTGGAGCAACTGGAGCAGCTCATCGAAAG  
CCATGATGTCGCTTCCTATTGATGGACACCAGGGAGAGCCGGTGGCTTCCTGCCGTCAATTGCTGCAAGCAAGAG  
AAAGCTGGTCATCAATGCTGCTTTGGGATTTGACACATTTGTTGTCTATGAGACATGGTCTGAAGAAACCAAGCA  
GCAAGGAGCTGGGGACTTGTGTCCAAACCACCTGTGGCATCTGCTGACCTCCTGGGCTCATCGCTTTTTTGCCAA  
CATCCCTGGTTACAAGCTTGGCTGCTACTTCTGCAATGATGTGGTGGCCCCAGGAGATTCAACCAGAGACCCGAC  
CTTGACCAGCAGTGCATGTGAGTCGTCCAGGACTGGCCGTGATTGCAGGAGCCCTGGCCGTGGAATTGATGGT  
ATCTGTTTTGCAGCATCCAGAAGGGGGCTATGCCATTGCCAGCAGCAGTGACGATCGGATGAATGAGCCTCCAAC  
CTCTCTTGGGCTTGTGCCTCACCAGATCCGGGGATTTCTTTCACGGTTTGATAATGTCCTTCCCGTCAGCCTGGC  
ATTTGACAAATGTACAGCTTGTCTTCCAAAGTTCTTGATCAATATGAACGAGAAGGATTTAACTTCTAGCCAA  
GGTGTTTAATTCTTCACATTCCTTCTTAGAAGACTTGACTGGTCTTACATTGCTGCATCAAGAAACCAAGCTGC  
TGAGATCTGGGACATGAGCGATGATGAGACCATCTGAGATGGCCCCGCTGTGGGGCTGACTTCTCCCTGGCCGCC  
TGCTGAGGAGCTCTCCATCGCCAGAGCAGGACTGCTGACCCAGGCCCTGGTGATTCTGGGCCCCCTCCTCCATACC  
CCGAGGTCTGGGATTCCCCCTCTGCTGCCCAGGAGTGCCAGTGTTCGGCGTTGCTCGGGATTCAAGATACCAC  
CAGTTCAGAGCTAAATAATAACCTTGGCCTTGGCCTTGCTATTGACCTGGGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1063**

MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLPARLTLEFSAFDMSAP  
TPARCCPAIGTLYNTNTLESFKTADKKLLLEQAANEIWESIKSGTALENPVLLNKFLLLTADLKKYHFYYWFCY  
PALCLPESLPLIQGPVGLDQRFSLKQIEALECAYDNLCQTEGVLTALPYFLIKYDENMVLVSLLKHYSDFQGGQRT  
KITIGVYDPCNLAQYPGWPLRNFLVLAHRWSSSFQSVEVVCFRDRTMQGARDVAHSIIFEVKLPMAFSPDCPK  
AVGWEKNQKGGMGPRMVNLSECMDBPKRLAESSVDNLKLMCWRLVPTLDLDKVVSVKCLLLGAGTLGCNVARTLM  
GWGVRHITFVDNAKISYSNPVRQPLYEFEDCLGGGKPKALAAADRLQKIFPGVNARGFNMSIPMPGHPVNFSSVT  
LEQARRDVEQLEQLIESHDVVFLMDTRESRWLPAVIAASKRKLVINAAALGFDTFVVMRHGLKKPKQQGAGDLCP  
NHPVASADLLGSSLFANIPGYKLCYFCNDVVAPGDSTRDRTLDQQCTVSRPGLAVIAGALAVELMVSVLQHPEG  
GYAIASSSDDRMNEPPTSLGLVPHQIRGFLSRFDNVLPVSLAFDKCTACSSKVLDQYEREGFNFLAKVFNSSHSF  
LEDLTGLTLLHQETQAAEIWDMSDDETI

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**FIGURE 1064**

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCATGGCCGCCCTCAGACCCCTTGTTGA  
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCGGCACCAGTCAGACCGATATGTCAAAATTAAGCGTA  
ACTGGCGGAAACCCAGAGGCATTGACAACAGGGTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTG  
GTTATGGAAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACGTCAAGG  
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA  
AAGCCATCGTGGAAAGAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGTGAAGAAA  
ATGAGTAGGCAGCTCATGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGCCATCTGGCATCTTCCTTC

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**FIGURE 1065**

MAALRPLVKPKIVKKRTKKFIRHQSDRYVKIKRNWRKPRGIDNRVRRRFKQILMPNIGYGSNKKTKHMLPSGFR  
KFLVHNVKELEVLLMCNKS YCAEIAHNVSSKNRKAIVERAAQLAIRVTNP NARLRSEENE



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**FIGURE 1066**

TCGGAGGAGCCAGCCGAAATCCTGCCGCCTGCCCGGGACGAGGAGGAGGAGGAGGAAGAGGGGATCGAGCAGGGG  
CTGGAGGAGGAAGAAGAGGTGGATCCCCGGATCCAGGGAGAACTGGAGAAGTTAAATCAGTCCACGGATGATATC  
AACAGACGGGAGACTGAACTTGAGGATGCTCGTCAGAAGTTCCGCTCTGTTCTGGTTGAAGCAACGGTGAAACTG  
GATGAACTGGTGAAGAAAATTGGCAAAGCTGTGGAAGACTCCAAGCCCTACTGGGAGGCACGGAGGGTGCCGAGG  
CAGGCTCAGCTGGAAGCTCAGAAAGCCACGCAGGACTTCCAGAGGGCCACAGAGGTGCTCCGTGCCGCCAAGGAG  
ACCATCTCCCTGGCCGAGCAGCGGCTGCTGGAGGATGACAAGCGGCAGTTCGACTCCGCCTGGCAGGAGATGCTG  
AATCACGCCACTCAGAGGGTCATGGAGGCGGAGCAGACCAAGACCAGGAGCGAGCTGGTGCCATAAGGAGACGGCA  
GCCAGGTACAATGCCGCCATGGGCGCATGCGACAGCTGGAGAAGAACTCAAGAGAGCCATCAACAAGTCCAAG  
CCTTATTTTGAAGTCAAGGCAAAGTACTATGTGCAGCTCGAGCAACTGAAAAAGACTGTGGATGACCTGCAGGCC  
AAACTGACCCTGGCAAAAGGCGAGTACAAGATGGCCCTGAAGAACCTGGAGATGATCTCAGATGAGATCCACGAG  
CGGCGCGCTCCAGTGCCATGGGGCCTCGGGGATGCGGTGTTGGTGCTGAGGGCAGCAGCACATCTGTGGAGGAT  
CTGCCAGGGAGCAAACCTGAGCCTGATGCCATTTCTGTGGCCTCGGAGGCCCTTGAAGATGACAGCTGTAGCAAC  
TTTGTGTCTGAAGATGACTCGGAAACCCAGTCCGTGTCCAGCTTTAGTTCAGGACCAACAAGCCCGTCTGAGATG  
CCTGACCAGTTCCCTGCCGTTGTGAGGCCTGGCAGCCTGGATCTGCCAGCCCTGTGTCCCTGTCAGAGTTTGGG  
ATGATGTTCCAGTGTTGGGCCCTCGAAGTGAATGCAGCGGGGCTCCTCCCTGAATGTGAAGTAGAACGAGGA  
GACAGGGCAGAAGGGGCGAGAGAATAAAACAAGTGACAAAGCCAACAACAACCGGGGCTCAGCAGTAGCAGTGCC  
AGTGGTGGCAGCAGTAAGAGCCAAAGCAGCACCTCCCTGAGGGCCAGGCCTTGAGAACCGGATGAAGCAGCTC  
TCCCTACAGTGCTCAAAGGGAAGAGATGGAATTATTGCTGACATAAAAAATGGTGAGATTGGCTGATTCATCCTG  
GGCCCTGGCCGATGTGCATATCAACATTTATACATGGAAGTGGAGAACATTGTGCCAATAATCATTAAATATATG  
CCAAATCTTACAGCTCTACTCTAAACTGCTCTAATGAAGTTTCAGTGACCTTGAGGGCTAAAGATTGTTCTTCTG  
GGTAAGAGCTCTTGGGCTGGTTTTTCAGAGCAGAGTTCTTGTGTGGGTAGACTGTGACTAGGTTACAGCCTTT  
GTGGAACATTCCGTATAACGGCATTGTGGAAGCAATAACTAGTTCCTATGAAAGAACCAGAGCTGGGAAGATGGC  
TGGGAAGCCAGGCCAAAGTGGGGGCAACAGCTTGCTTCTCTTCTCTCACCCTCAGTTTGTATGGGAAAATG  
GAGATGTCTCTCCACTTTATCCCACGATATCTAAATGAAAAAGAAAGAAAACCCACACACAAAGCAAAAACTCA  
AGTATTAAGAGCACATATTTTTGACCCAGTGGAGGCTTAAAAAAAAAAAAATCCAAGAACACAATTCATTTTAC  
CACCTCTGGTGTTTCCAGAGGGGGCTTTTAAAAAAGCGTGTATGCTGGGATACCCATTAAACCATTTTCTAGAAGG  
CTACCATGAGCTGCACTTTTTGGGGTGGGAAAGGTGAATGCCAGTGGGGATGCGGGGGATGAGGGTAGGAGGGA  
CTTATAGAAGGGGATTTGTGGCTGTGGGGGAGAAGGTTCTACAGCATAAGCCTTATCCTGCCAGCCAAGGGGATT  
TATTCCTAAGAGAAGTGATGTGAAGAATGGTTGCCACTGTTATTAGATTGACAAGATGTTAATTTCTCTGTAGGT  
TGTAACTTTAAAAATAAATGAAATTATTTAAGGGTTATGCTGCACTAGTATTCTTAGAGGAAACAGTTCTTTAA  
AGTTAGGAAAGGGAGTAGGCAGGCATGTGTTGGCAAAGGCTGTTAATAGTAGTTAAGTGTTAAGACTGCTTTTCT  
TTAACGTTTTTCATGGTAATGCATATTTAGAGCACTGTATTTTGTCTTGTAAAGAAAATTTAGCATTTCTAAAAAG  
AAAAAGCAACCCCTCTTTCAAAGTGTAAATCTGTACAGCCTGTATATTTTAGTCATTTGTAAATCTCTTCATA  
CAATAGTGACTTCTTTTTTGACTGATACAGTATCTTAATTACAAGGTTATTTTGTACTTGTCTTAATACACTAAG  
TGTAATAAAAAACGGCTTGAG

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**FIGURE 1067**

MEQGLEEEEEVDPRIQGELEKLNQSTDDINRRETELEDARQKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEAR  
RVARQAQLEAQKATQDFQRATEVLRAAKETISLAEQRLEDDKRQFDSAWQEMLNHATQRVMEAEQTKTRSELVH  
KETAARYNAAMGRMRQLEKKLKRAINKSKPYFELKAKYYVQLEQLKKTVDLQAKLTLAKGEYKMALKNLEMISD  
EIHERRRSSAMGPRGCGVGAEGSSTSVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSFSSGPTS  
PSEMPDQFPVVRPGSLDLPSPVSLSEFGMMFPVLGPRSECSGASSPECEVERGDRAEGAENKTSKANNNRGLS  
SSSGSGGSSKSQSSTSPGQALENRMKQLSLQCSKGRDGIIADIKMVQIG

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**FIGURE 1068**

CATGGCAAAAGAACTCCCGGATAATCCGAATTCGTGGTCTCAGAATTGGTTTAGGGTTGTTTCGCGGTTCTTCC  
CGTATTCTGCCTCCGAGGCCAGTGGGGCTGGCTGTGGGGTGAGTGCGCCTGGCCCTAGCCCTGCAGCCCCCTGT  
GCTGTTTGAGGCGTGAAACTCACCTCAGGAAATGTATCTGATCCATTAGCGTGGATTTCATATTATTTGGTGATGG  
AGAATCTTCAGCTGTGTTAAGTGTTACCGTCAGTTTCAGAGATGGCTTCTTTGCAAAGGAAAGGGCTGCAGGCAA  
GGATTCTCACCTCTGAAGAAGAGGAGAAACTGAAAAGAGACCAAACCTTTGGTGTCTGATTTTAAACAGCAGAAAT  
TGGAACAAGAGGCTCAGAAAAATTGGGATCTTTTTTACAAAAGAAATAGCACTAATTTCTTCAAAGACAGACACT  
GGACCACCAGAGAGTTTGAGGAGCTAAGATCATGTAGAGAGTTTGAAGATCAAAGTTAAACAATGCTTGAAGCTG  
GCTGTGGGGTTGGAACTGTTTATTCCCACTTTTGAAGAAGATCCGAATATCTTTGCCTATGCCTGTGATTTTT  
CTCCAAGAGCCATTGAATATGTTAAGCAAAATCCTTTATATGATACAGAAAGATGCAAGGTATTCCAGTGTGATC  
TGACTAAAGATGATCTTCTGGATCATGTACCGCCAGAGTCTGTGGATGTTGTTATGTTGATATTTGTGCTGTCAG  
CTGTTTCATCTGATAAGATGCACCTTGTCTTACAAAACATTTACAAGGTATTAAAACAGGCAAAAGTGCTTGT  
TTCGTGACTACGGACTGTATGATCATGCCATGCTTAGGTTTAAAGCCAGCAGCAAACCTGGAGAAAACTTTTATG  
TTAGACAAGATGGGACCAGATCATATTTTTTTACTGATGACTTCCTGGCTCAGCTCTTTATGGACACAGGTTATG  
AAGAAGTGGTAAACGAGTATGTGTTTCGAGAGACGGTGAATAAAAAAGAAGGCCTGTGTGTGCCAAGAGTTTTCC  
TTCAGAGCAAATTTCTAAAGCCTCCTAAGAACCCATCTCCTGTGGTCTGGGCCTGGATCCTAAGTCCTGACCTT  
TCATGAGGTTGGCATTATACCTTCCCTTGAAGAGGAAAATTTAAATCACTCTTTTCGTCTGGGTGCGGTGGCTC  
ATGCCTGTAATCCCAGCACTTCGGGAGGCCGAGGTTGGGGGATCATCTGAGGTCAGGAGTTTGAGACCAGCCTGG  
CCAACATGGTGAGACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGGCATAGTGGCGAGTGCCTGTAATCC  
CAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCCAAGAGGCGGAGACTGCAGTGAGCCAAGATCATGC  
CATTGCACTCCAGCCTGGGCGACAGAGTGAGACCTGTTTCATAAATAAATAAAATCACTCTTTTTACTTTATAT  
ATTTTTTGAGACAGGATCTTGTGGTACGCAGGCTGGAGTGCAGTGGTGTGTGATCACAGCTCATTGTAGCCTCGA  
CCTCCCCTGGGCTCAAGCAGTCTTCCTGCCTCAGCCTCCTGAGTAGCTAGGACTACAGGTGTAAGCCACCATGCC  
TGGCCCTTAATTTTTTTTAAATGAGCATGTACAGTAGTCCCGCTTTATCCATGGTTTCACTTACCACAATTTCAAT  
TACCTGTTTTCAACTGCAGTCAGTTACTTTTCTTAAAGATATTTTGAGGGTTATAGGCTCATGCCTATAACCCAG  
CACTTTGAGAGGCCAAGGCCAGCAGATCCCTTGAGCCCAGGAGTTCAAGACCAGTGTGGGCAACATGGTGAAACT  
CTGTCTCTACAGAAAATACAAAAATTAGCCAAATGTGGTGGCATGTGCCTGTAGTCCCAG

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**FIGURE 1069**

MASLQRKGLQARILTSEEEKLKRDQTLVSDFKQOKLEQEAQKNWDLFYKRNSTNFFKDRHWTTREFEELRSCRE  
FEDQKLTMLEAGCGVGNCLFPLLEEDPNIFAYACDFSPRAIEYVKQNPLYDTERCKVFQCDLT KD D LLDHVPPE  
VDVVMLIFVLSAVHPDKMHLVLQNIYKVLKPGKSVLFRDYGLYDHAMLRFKASSKLGENFYVRQDGTRSYFFTDD  
FLAQLFMDTGYYEEVVNEYVFRET VNKKEGLCVPRVFLQSKFLKPPKNPSPVVLGLDPKS

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**FIGURE 1070A**

GACAAATGAAAAGCGAACCCCATTTGCACGCCGAGCTTACCTTGGAGATGCAGAAATCATTGAACTTCTTATTTTA  
TCTGGAGCTAGAGTTAATGCCAAAGACAGCAAATGGTTGACACCTTTACACAGAGCAGTTGCATCTTGTAGTGAG  
GAAGCAGTTTACAGGTACTTTTGAAGCATTCTGCAGATGTTAATGCTCGAGACAAAAATTGGCAAACCCCTTTACAT  
ATAGCTGCTGCTAATAAAGCTGTAAAGTGTGCTGAAGCTTTGGTACCTCTTCTGAGTAATGTAAACGTATCTGAT  
CGAGCAGGGAGGACTGCATTACATCATGCAGCTTTTTCAGTGGACATGGTGAGATGGTCAAACCTACTCTTGTCTAGA  
GGTGCCAAATATTAATGCTTTTGACAAGAAAGATAGGCGTGCTATCCATTGGGCAGCATATATGGGTACACATTGAA  
GTAGTGAAATTGCTTGTGTCGCATGGAGCTGAAGTGACATGCAAGGATAAAAAGTCTTATACACCTCTTTCATGCA  
GCAGCCTCTAGTGGAATGATCAGCGTAGTCAAGTACCTTCTAGATCTTGGAGTTGATATGAATGAACCAAATGCC  
TATGGAATACACCTCTTTCATGTAGCCTGCTATAATGGACAAGATGTTGTAGTGAATGAACCTTATAGACTGTGGT  
GCTATTGTGAATCAAAAGAAATGAAAAAGGATTACTCCTTTGCACTTTGCTGCTGCATCAACACATGGAGCATTG  
TGTTTAGAGCTTCTAGTTGGCAATGGGGCCGATGTCAATATGAAGAGTAAAGATGGGAAAACCCCACTACACATG  
ACTGCTCTCCACGGTAGATTCTCCCGATCACAAACCATTATCCAGAGTGGAGCTGTAATCGACTGTGAGGATAAG  
AATGGAATACCCCTTTTGACATAGCAGCACGGTATGGCCATGAGCTGCTGATCAACACTCTTATTACAAGTGGT  
GCTGACACTGCAAAGCGTGGCATAACATGGAATGTTCCCCCTCCATTGTCAGCCTTAAGCGGCTTTTCAGATTGC  
TGCAGAAAACCTTCTTTCTTCAGGATTTGATATAGATACCCAGATGATTTTGGCAGGACTTGTCTACATGCAGCT  
GCAGCTGGAGGGAATTTGGAGTGCCTAAACCTTCTGCTGAATACTGGTGCAGACTTTAATAAAAAGGACAAATTT  
GGGAGATCTCCACTGCACTACGCTGCTGCCAACTGCAATTACCACTGCCTGTTTGTCTTGTGGGATCAGGAGCA  
AGTGTGAATGACCTTGATGAAAGAGGCTGCACACCCCTGCACTATGCAGCTACATCAGACACAGATGGCAAGTGC  
CTGGAATACTTATTAAGAAACGATGCAATCCAGGGATCCGTGATAAGCAAGGATACAACGCAGTTTCAATTATCA  
GCTGCTTATGGTCAACGCTCTATGTCTTCAGCTGATTGCAAGTGAACCTCCTCTAGATGTTTTAATGGAAACCTCA  
GGAACAGACATGCTGAGTGATTTCAGATAATAGAGCAACAATAAGCCCTTTACACTTGGCTGCCTATCATGGTCAC  
CATCAAGCACTGGAAGTGTGGTACAGTCTTTGTTAGATCTTGATGTCAGAAATAGTAGTGGAAGAACACCCCTA  
GATCTTGCAGCTTTTAAAGGGCCATGTTGAATGTGTGGATGTACTCATTAAATCAGGGAGCCTCAATCTTAGTAAAA  
GATTACATTTTGAAGAGGACACCTATTTCATGCAGCAGCAACAATGGTCAATTCAGAAATGCTTACGGCTATTAATA  
GGAAATGCAGAACACAGAAATGCAGTGGATATTCAAGATGGAAATGGACAGACGCCCTCTGATGCTATCTGTTCTC  
AACGGGCACACAGACTGTGTTTACTCATTGCTGAACAAAGGAGCAAAATGTAGATGCCAAAGATAAGTGGGGAAGG  
ACAGCGTTGCATAGAGGGGCGAGTTACAGGCCATGAAGAATGTGTAGATGCATTACTTCAACATGGTGTCTAAGTGC  
TTACTTCGGGATAGCAGGGGCGGACGCCTATACACCTGTCTGCTGCCTGTGGACACATTTGGTGTCTTGGAGCC  
CTTTTGCAGTCAGCAGCATCTATGGATGCAATCCAGCCACAGCAGACAATCATGGATATACGGCATTCACTGG  
GCTTGCTACAATGGTACAGAGACATGTGTAGAACTGCTTTTAGAACAGGAAGTTTTCCAGAAAACGGAAGAAAT  
GCTTTTAGTCCATTGCATTGTGCCGTGATAAATGACAACGAAGGTGCTGCTGAGATGTTAATTGATACATTAGGT  
GCCAGCATTGTGAACGCCACAGATTCAAAAGGAAGAACTCCTCTCCATGCAGCCGCCTTCACAGACCATGTAGAG  
TGTTTACAGCTGCTGCTCAGCCATAATGCTCAAGTCAATTCTGTGGACTCTACAGGGAAAACACCTCTTATGATG  
GCTGCAGAAAATGGACAAACAAATACAGTTGAGATGCTGGTTAGCAGTGTAGTGCAGAACTGACTTTTACAAGAT  
AACAGTAAAAATACTGCCCTCCATTGCGCTTGTAGCAAGGGTTCATGAACTAGTGCCTTGTTAATACTGGAAAAG  
ATAACAGATAGAAACCTCATCAATGCAACCAACGCAGCCTTGCAACACCTCTGCATGTTGCTGCCGAAATGGG  
CTAACAATGGTGGTTTACAGAACTTTTGGGAAAAGGAGCAAGTGTGCTTGCAGTAGATGAAAATGGCTATACCCCA  
GCTTTGGCCTGTGCTCCCAATAAGGATGTGGCTGATTGCCTGGCTCTCATTTTGGCCACCATGATGCCTGTCTCA  
TCAAGTAGTCCTTTATCATCCTTAACATTCAATGCCATTAAACGTTTATACCAACACCTCAAAAACAGTCAGCTTT  
GAAGCTTTGCCCATCATGAGGAATGAACCTAGCTCCTATTGCAAGTTTCAATAACATTGGAGGGGAACAGGAGTAC  
TTATACACTGACGTGGATGAGCTCAACGACTCCGATTCTGAGACCTACTGAGAGGCTGAGGAGGAGGGAGTTCTC  
ACAGTAAAGCTTCAAACCTGTGCTTTTTCAGGAAAAGGCACCTTTGATATTACGTAGAAATTCACCTAAGAGGA  
AAGATCCACAGTGAGCCAATGTTAAGAGATCTGATGGCATTAGGAGGAAGAGTTTTAAAGGCAAGTTTTACAAA  
AGGAACTTCTAGAATCTTGAAATAGACCTGACTGAGGAAAACACATTGATGTGAGAATCTTTGTGGAATGTTT  
AATTTGGTTTTGCAGTGCCAGGAACAATTTGGGACACTGTGCACTCTAACCTGCTTACACAAGCAACACTATTGT  
AACAGAAGAAATAAGACACTAGATTTAAATTTTATCAATAAAATTAACACTAAATTTAAAGGCAATAAAAGTTT  
GGTACAGTAGGCATTATGTGCACAGCAAATTTGCAAAAGGACCAAATAACTGAAAGGTTTTTTTAAATAAAATGCCA  
TTTTGTGGAACCTGGAGTAGATTAAATGAAACATTACCTAAACCAAACTGCAATATTTCTGGAAATGAAGCTGAG

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## FIGURE 1070B

ATTTGGTTTTAAATGTTGAGTTTTTTGGGTTTTGTTTTTTTTTAAGAAAACATCTGAAAGCCTTCCAATGCTG  
TATTAAACCATGAGAGAAAGCAGATGTATTTTTACATTTTTTCTTTTACAGAACTATTCAAATTTCCAATTTT  
TATACTATTAGAATTA AAAACAGCTGACTGGGTGCAATACGGGTGAAAATACTTGTGACATAGACATTGAGATG  
GATTGGGGTCAGGCTGTTGCCCTGTTTTGAATGGTTGGGTTTTAAATAGTACTATTTTTGTTTGAAAATGTAAA  
GAATTTCCTAGAAAAAATT CATGAAATCAAAAAGTAGACTATTTACCCCTATTGCAGCTAAGTGGTCCTGGGGC  
ATGGAGTCTTCAACCTCTCTATGAATGGCACACCTTAGTCACTTATGTTACTTTTGTGTCCCCACCATGGGTGG  
GGGATTTTTTTGTTTATTCTGATCTATGAGTTTTGAAAAGTGAATAATCAAAAGGAAAAATAATTCCTTGTTGTT  
ATAAATTAAGCATCACTAAAGTCTCTTGAAAGGCATTTCTGTATTGGGCAAGATTTAAATACTAAAGCCTTAGG  
TCCTATTTCATATTTAAAGTAGCATGTTTGTAACCTGTTACTATTTGGAGAGAGAAGCAGTTGCCTGCCAAATTGA  
AGACTACCTTTCAAATAGCAAAAGAGAGAGAGAAGGCTGATATTTCCGCTTTTAAATAAAGATTTGTGTGGTTCT  
GCTTTTACTGTAACTGTCACTTTCCCACTGAAAATGATTTTCATATACATTGAGGGTCTTACAGGTATGGGTAAAG  
TTCTATAAATTGCAACAAAATGATACCCAATTTTCAATTTATCCTTTTGTATTGTGAACTGGAACTTTATGAC  
ATTGTAAATTATCAGCTGGTTTTTCTGAATATAAAGTGTGAAAACACAGAACAGTATTTTGATCTATTTGATAAT  
TTTGTGGGTTTTTTGAAGAATTAATGAGCATGTACATAGAAATAGTGACTGCTTGAATACTGTATTTACTTGCAC  
TCTTTCAGTACATCAAGATTCCTGTATATTTTAGAGTATAATAAAACACAGATGTGAGTTGTATTTAATGAATAA  
TGATTTTGTACTGTGTCATATTATCTACAAATCTATAAGTTTCTAGGGCATTGACTACTAGATTTTAAGCATT  
TTTCTAAAATATTTACAGAAATTATAAATCTAATCCCCATCTTTTCTTTATAATATAAAGAAGTCATAATGAAC  
CCTTCCTAATTATTAGTAGTAGGAAGGTGAATATGCATTTTAATGACAGTGGACTACATTTTCTATTGTACCTTT  
TGAAAAAATAAATCAAGCAGATTCTAAAAGTATACATATGTGTGCTTTCTCTTTCTTTTAGGAATTCTCTT  
CTGAATTCCTGAGGGAATTTCTAGAATCTCAGAATTGAAAGAGACCTGAGGTTTCATCCAGTCTCTAACCTCTT  
AACAAATGCAGGAGTCCCTTCTACAAGGGTGATCTTTCCACCTTGAACACTTCCAAGTACTCTACCTCACCAAG  
CAGTCCATTCAAGTTGTTGAGCAGCTCTAACTGTTAGAAAGGTCTTCCCTTAGATGGAGTTGAAGCCTCCCTCCCGG  
TAACTTCTGTCTTTGGGCCTGGGTCTGTCTCCAAGAGAACCTGAGAATGTTGGAAGGATGAATCTCGCACATT  
CTGCCATGTCTTCTCTTTTACAGGCTGTTTGACTTCTCTGCTGAAGTGATTCCAGAAGGACTCATTGACACAC  
TATTAGATTTACCACATCTAATGAAATCCAAGGTGTAGCTATAAAGTGACAAGCTGTTTTTAATTTATCACATAC  
ACCAGAATTTCTATCCTGCATCACTTATATGTAATGATGCTGTTACCAAAACATTAAGGTAGTTCTTGCGAAT  
GCCACCCCACTAAGAAAATATTTTACTTTTGTAAATCCATCTGTGAGAGTCTGCCCCCAGCTTAACCACTT  
CCTTTGGTCTGCACCAATGAAGGGAAACCCCAAAGTACTGTCTCAAATGGTATTGAACTACG

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**FIGURE 1071**

MVKLLLSRGANINAFDKKDRRAIHWAAYMGHIEVVKLLVSHGA EVTCKDKKSYTPLHAAASSGMISVVKYLLDLG  
VDMNEPNAYGNTPLHVACYNGQDVVVNELIDCGAIVNQKNEKGFTPLHFAAASTHGALCLELLVGNGADVNMSK  
DGKTP LHMTALHGRFSRSQTIIQSGAVIDCEDKNGNTPLHIAARYGHELLINTLITSGADTAKRGIHGMFPLHLA  
ALSGFSDCCRKLLSSGFDIDTPDDFGRTCLHAAAAGGNLECLNLLLNTGADFNKKDKFGRSPLHYAAANCNYQCL  
FALVSGSASVNDLDERGCTPLHYAATSDTDGKCLEYLLRNDANPGIRDKQGYNAVHYSAAYGHRCLQLIASETP  
LDVLMETSGTDMLSDSNRATISPLHLAAYHGHQALEVLVQSLLDLVRNSSGRTPDLAAFKGHVECV DVLIN  
QGASILVKDYILKRTPIHAAATNGHSECLRL LIGNAEPQNAVDIQDNGGQTPMLSVLNGHTDCVYSLLNKGANV  
DAKDKWGRTALHRGAVTGHEECVDALLQHGA KCLLRDSRGRTPIHLSAACGHICVLGALLQSAASMDANPATADN  
HGYTALHWACYNGHETCVELLLEQEVFQKTEGNAFSPLHCAVINDNEGAAEMLIDTLGASIVNATDSKGRTP LHA  
AAFTDHVECLQLLLSHNAQVNSVDSTGKTPLMMAAENGQNTVEMLVSSASAELTLQDNSKNTALHLACSKGHET  
SALLILEKITDRNLINATNAALQTP LHVAARNGLT MVVQELLGKGASVLAVDENGYPALACAPNKDVADCLALI  
LATMMPVSSSSPLSSLTFNAINRYTNTSKTVSFEALPIMRNEPSSYCSFNNIGGEQEYLYTDVDELNDSDSETY

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**FIGURE 1072**

CTTCCTGACAGCACACAACCTTGATTAGGAGGGGCTGGGAGGGAGGATCGATGAGCCCCTGACCCCTGGGTTCTG  
AGGCTGCCAGGGTCGCTTGACGCTCGGCCGCTGGAGGTGACCGGGCGGAACCTCCGAGGGGGCGCGGGGAGAGCT  
GGGCGGGGCCACCGCTCCAGCGGCTGCTGTAGGGGCCGCGAGGCTTTCCCTGAAGATGCAGCGTAGCATATTTT  
GCACATGAGTTTCAGAGGAAGAGGAAGTGTAGCCGGCGGACGCGCGGCGGGCGGGGGCGCGTTCGGGGCTGG  
AGCCGGAGCGCGCGGGCGCTGGGCGCAGCGAGCGAGAGCGCGGCGGGCGGGCTCCGGCGAGGGACAGACGCA  
CCGATCGCCGAGGGACAGACACAGACCACGCGGCGCCACCGCCACGCCTCCACCCACCGGGCGCCCAAGTCCT  
CCCCGCGCGCCTCCTCTGTATGGCACAACTTTCTCCCGGACGGAACACGCTGCCTCAGGGAGCCCGCGACC  
GCGCCTTCTCCTCCGCGGCTCCATACGCTGCTGAAATGGGTTCGGATTGAACAAGTTAGAGAAACGTGATGAA  
AAACGGCCTGGGAATATTTATTCAACTTTGAAGAGGCTCAGGTGGAAACCAAGATAGATGTGTCTATGAATAC  
CGCTTCTGGAGTTACGACTCTGAGTGCTGCGGAGCTCCCTGGGTCTCAGCAGTGAGGCTGGCCTCCCTGCGT  
GACCTGCCCCCGAGCTCCTGGAGCTGTACCAGCAGGGCTTCTCGCTGGCGGCCCTGCACCCCTTCGTGCAGCCC  
ACCCATGAGCGGGAGAAGACGCCCCCTGGAGCACATCTTTAGAGCCATCCTGATCAAGAAAACCGACAGATCTCAG  
AAAATGATCTTCACAATGAAGGTACATCTTGAATTAGATTGCTGTCTCCTTACAGCACCCGACAGACGAG  
AAACTCATCCAGAGTTTATTAAGAAGATCCAGGAGGCTGCAAGCCAGGGCCTGAAATTCGTTGGTGTATACCT  
CAGTACCATTCTCTGTGAACCTCGGCAGGCAGCAGTGCTCCGGTGTCTACTGCCAACAGCACCGAGGATGCCAGA  
GATGCAAAAAACGCACGTGGGGATCACGCGTCACTGGAGAATGAGAAACCGGGGACTGGGGATGTGTGCAGTGCT  
CCGGCTGGGAGAAACCAAGCCCAGAGCCCAGCTCAGGCCCCAGAGGGGAGGTGCCCCCTCGCAAGCAGCCCAGC  
TCACCCCTCCGGAGAGGGAGATGGTGGAGAACTTTCACCACAGGGGGTGAGCAAGACACTGGATGGACCGGAGAGC  
AACCCCTTGGAGGTGCATGAAGAGCCACTCTCAGGAAAAATGGAGATCTTCACCCCTTTTCAACAAACCGAAGAGC  
CATCAGAAGTGCCGGAATACTACCTGTACCATTTCTCTCATGTCTCCAAGAATGGCCAGACAGTGAGCGGT  
TTGGACGCCAACTGGTTAGAGCACATGAGCGACCACTTCCGGAAGGAGGCATGCTGGTGAACGCAGTCTTCTAC  
CTTGAATAGTGAATGATTCTTACATGGCTTGACAGATGGAGTATTCTTTGAAGCTGTTTCCACAGAAGAT  
AGCAAAACCATAACGGGCTATGATGCTATTGTGGTTGAACAATGGACAGTCTGGAAGGTGTCGAAGTGCAGACA  
GACTACGTGCCCCCTGCTGAACCTCGCTGGCGGCCTATGGCTGGCAGCTCACCTGTGTGTACCAACTCCCGTCTGTC  
AAGACTACCAGCGAGGGGAGTGTATCCACCAAGCAGATTGTCTTTCTCAGAGACCTTGTCTACCTCAGAAAATC  
AAGAAGAAGGAATCGAAGTTTTCAGTGCGGATTCTCCAGAGAAGAAATGCACAACAGGCAGATGAGGAAATCAAAA  
GGTAAACTCAGTGCCAGAGACAAACAAGCAGAAGAAATGAGAAGAACTTAGAAGACCAGTCTTCCAAAGCT  
GGAGACATGGGAAACTGTGTTTCAGGACAGCAGCAGGAGGGTGGAGTCTCCGAGGAGATGAAGGGCCCTGTCCAA  
GAGGACAAGGGAGAACAGCTGTCCCTGGTGGCCTGCTGTGTGGGGTGGGTGTGGAGGGTGAGGCTGTGCAGAAT  
GGTCCTGCCAGCCACAGCAGGGCCCTGGTGGGGATTGCACTGGGCACTCCAATCCTGGAGAGGATGCCAGGGAC  
GGGGATGCTGAGGAAGTCAGAGAGCTTGGTACGGTTGAAGAAAATGAGTCTTGGGCAATTTGTGCTAAACTAG  
GTGAGTTGCCAAACCCAAGGCATCTTACCAACAGCTGGTTTGGGGGCTGGTTTCCCTGGTGTGTGTGTACCTA  
CCCTTTGGCTTGGCTTGACCTCTCCTTGTGAGCTCACCTGAGCCCTCCCAGGGCCAGGTTCTGACAGTGTTGGT  
TTTTGCACATCCACTGGAAAGGTGTCTAATGACCCAGTGTTAGAATGCAAGAGGTGAGGTTATTCTAGCCCTC  
ATGGCTGAAGGCCAGTCTGGCTCCACCACTCCTCCAGCCAGAGGGTCTGGACCATCCAGTGCCTGTCTCGCC  
ACAGGGCCTCCAGGGAGCATTTCGGGTCAAATCCATGGACACCCCTGGGCTACAAACCAAGGCTGCTGTTCATCCCA  
CATCGTGTGGGGCAGTGTCATCCCTGCAGCTACTTGGTGACTTAACAACCTCCAGGAGCCCTGTGAGCTGCCCT  
CCTCCACCTAAACCCCTTCGACTCTTCTGCTTTGACAAAGAAAATGACATTGGGAGGGGAGGTGCTCCGCCTCC  
CAGCTTTTCTCAAATAGTCTATAGATACTGGTAATCTGGAAATGAAGAAGTAATTCTGTCTCTGCACCTACTT  
TTGCAGAATGTTCAAGGAAGTATTCTGTGTAGTATTAATGCCAAAAGTTGTTTTAAAGGTTTTGTACTCAGC  
ACATCATACAAACCACATTACTTCTGTCACTTCAGGGCATCGGGAAGTGGCTGGCGCCCTTGTATGTGCTATTTT  
AATCAGTGTAACATTGGTCAAGTTGTTACCAATGATGCTGTGTTTATCATGTGTATATCGTCCAGAAAGTATTA  
AGGCTTTAGGTAGATGCAACTGGCGAACCTTGAGAGGGAATGCTGATTGTCTTGACCAAAACCCACAGCCTGTCT  
CTTCTCTGTTTAGTTACTTACGGCAATAAATCATCTATGAGTT



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**FIGURE 1073**

MGCGLNKLEKRDEKRPNGNIYSTIKRPQVETKIDVSYEYRFLEF TTLSAAELPGSSAVRLASLRDLPAQLLELYQQ  
GFSLAALHPFVQPTHEREKTPLEHIFRAILIKKTD RSQKTDLHNEGYLELDCCSSLDHPTDQKLIPEFIKKIQE  
AASQGLKFVGVIPQYHSSVNSAGSSAPVSTANSTEDARDAKNARGDHASLENEKP GTGDVCSAPAGRNQSPEPSS  
GPRGEVPLAKQPSSPSGEGDGGELSPQGVSKTLDGPESNPLEVHEEPLSGKMEIFTLFNPKPKSHQKCRQYYPVTI  
PLHVS KNGQTVSGLDANWLEHMSDHFRKGGMLVNAV FYLGIVNDSLHGLTDGVFIFEAVSTEDSKTIQGYDAIVV  
EQWTVLEGVEVQTDYVPLLNSLAAYGWQLTCVLP TPVVKTTSEGSVSTKQIVFLQRPCLPQIKKKESKFQWRFS  
REEMHNRQMRKSKGKLSARDKQQAENEKNLEDQSSKAGDMGNCVSGQQQEGGVSEEMKGPVQEDKGEQLSPGGL  
LCGVGVEGEAVQNGPASHSRALVGICTGHSNPGEDARDGDAEEVRELGTVEEN

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**FIGURE 1074**

GCAATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGT  
CTGCCAGAAAGAGGATATGGTGATAAGACAGAGGCCAACCAAAAGCTTCATGACATGGTAGACCAACTGGAACAA  
ATTCTCAGTGTGTCAGAGCTTTTGGAAAAACATGGACTCGAGAAACCAATTTCAATTTGTTAAAAACACTCAATCT  
AGCTCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTGAGT  
TCTCATTGGAGAACGTTGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGTCTAGATTCTGATGCC  
TGCTATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCTTGAAAACATCCACCTGGCTGGACAGATGATG  
CACTGCAGTGTCTTGTTCAGAAAATCCTCCAGCTGGTATAGCCCATAAAGGGAAACCCCACTACAGGGTCAGCTAC  
GAAAAGAGTATTGACTTGGTTTTTGGCTGCCAGCAGAGAGTACTTCAATTTCTTACCAACCTCACTGATAGCTGC  
ATGGATCTAGCCAGGTGCTGCTTACAACTGATAACAGACAGACCCCTGCCATTCAAGAGGAGCTAGATCTTATC  
CAAGCCGTTGGATGTCTTGAAGAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCGATTGTGCCCTGATCGGATC  
AGTCTCATCAAGGAGTGTATTTCCAGTCCCCCACATGCTATAAACAATCCACCAAGCTTCTGGGCCCTTGCTGAG  
CTGCTGAGGGTTGCAAGTGAGAACCCAGAAGAAAGCGGGGACAGGTTCTAATCCTTTTAGTGAGCAGGCACCTTC  
GCTTCCATGACTACAAAGCAGCCAGTATGCATTGTGAGGAGCTGATGGCCACAGGTTATCCTAAAAGGTTGGGATG  
TTTGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGTCTTTGA  
CACATTGCCCTCCTAGCAGCATTGAACCTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATCTTTATCAAA  
GAGTGAATTTCCAGATCCATCATGAAGGAGGGGAAAATATCAGTGCTTCACCATTAACTAGTAAAGCAGTACAAG  
AGGATGAAGTAGGTGTTCCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCCATGAAAGTCC  
TTTCCAACACCACAACCACCACCAAAGCGGTGCTGCAGGCCGTGATGATGGGCAGTGGTGAAGAAGTCTTTAA  
CTTACCTTCGACCCCTTCAGGGGGCAAAATGTGGTGGTGCATATCAAATCGGAACCTACAGCCATGAAGATCTAG  
AGAAACAAGGGTGTCTCCTTTTATGAATCTGTCTATCTCAAATCCTTTTGTGCTGAGTCTGAAGGGACCTATG  
ACACCTATCAGCATGTTCCAGTGGAAGCTTTGCAGAAGTATTGCTGAGAAGTGGAAAATTTGGCAGAGGCTAAAA  
ATAAAGGAGAAGTATTTCCAACAAGTGAAGTCTCTTGGCACTAGCAAGTGAAGCCTTGCCAAATGACATGACCT  
TGGCTCTTGCTTACCTTCTTGCCCTTACCACAAGTGTTAGATGCTAACCAGGTGCTTTGAAAAGCAGTCCCCCTCTG  
CAFTATCTCTCCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCCGATTGGCCCCATGTTTCAGGGACA  
AGTGCCATCCTCTTTACAGGGCTGATCCCAAGAAGTAAATCAAGATGGTACCAGGCATGTGACTCGACATGAGC  
ACGAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGCTCTCTGGATTTC  
CTCAGGCGCAGATCCTTCAGGGCCTTCGGAAGGGTGTGGAGCTGCAGCGGTTTACTGCAGATGACCAGTATAAAA  
GGGAAACTATCCTTGGTCTGGCAGAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACAACGTT  
ACAGTGTCTCCCGCTGGGAAGTTTTTATGACCCATTTGGAGTTCTCTTTCACGGACAGTGGTTTGTCCACACTAG  
AAATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTACCAGCACA  
TGGTCAAGTATATTTACCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGAAA  
ACTGTGGCTGTGCAGATTTGGGGAAGTGTGCCATTAAACCAGAAACCCACATTGACTGCTGAAGAAGTTTAAAG  
TTGTTGCATCAGGTCTTAATTACAAAAGCTGACAGATGAAAACATGAGTCCTCTTGAAGCATTGGAGCCAGTTC  
TTTCAAGTCAAAATATCTTGTCTATTTCCAAACTTGTTCCTTCCAAAATCCCTGAAAAGGATGGACAGATGCTTCCC  
CAAGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGGACTGGAGACCCTCATCTCATTAAACAAGTCCCAG  
GCTCTTACCAGGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCA  
TCACTGTGGTAGATGCAGTTACATTTTCTCCAAAAGCTGTGACCAAGCTGTCTGTGGAAGCCGTAAAGAGATGA  
CTAGAAAGGCTATTAAGACAGTCAACATTTTATGAGAAGCCAAGGAAAAGAACTCAGAAGACGAAGCTCAAG  
AAGCTAAGGATTCTAAAGTTACCTATGCAGATACTTTGAATCATCTGGAGAAATCACTTGCCACCTGGAAACCC  
TGAGCCACAGCTTCATCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATC  
TGTCCCGATCAGAAAAGAGAACTTCATGATGAAGCTGTGGCTATTTGTTTAGATGGTCAGCCTCTAGCAATGA  
TTCAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTCACCAAGGATATAGTGCAGAGTGAATCATGA  
AAATAATTTCTGCATTGAG

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**FIGURE 1075**

GCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTC  
GCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTT  
TTTGTGCAAACCTTGTCGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAG  
AAGCCCGTTATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGATCCCA  
ATGCACCCAAGAGGCTTCCTTCGGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCAAAATCAAAGGAGAACATC  
CTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGC  
CTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGC  
CTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAG  
ATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGAAGAAGATGATGATGATGAATAAGTTGGTTGTA  
GCGCAGTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAATTCACCTCTTTTTAAAGAAAAAATTG  
AAATGTAAGGCGGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATG  
TGTCTTTAGATAGCCCTGTCCTGGTGGTATTTTCAATAGCCACTAACTTTGCCTGGTACAGTATGGGGGTGTAA  
ATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCCAGCACAAATTAGTTATATATGGGGATGGTAGTTTTT  
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTAACTGAATACCACTCTGTAATTG  
CAAAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTA

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**FIGURE 1076**

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAG  
AAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGG  
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGG  
ATTTCGTGTTCCCGTGGTGGCCGAAAACGCCCAGTTCTTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT  
GTTAACCAGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGCTGGACGCCACTGTGGGGCTCTG  
AGAGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGATCCATT  
CATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCACAAGCACAGGGAGATGCGTGGG  
CTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAGGGCCACAAGTTCACCACACTATTGGTGGCTCTCGC  
CGGGCAGCTTGAGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAAATATAAGTAAAGTTTGTAATAATTCA  
TACTTAATAAAACAATTTAGGACAGTCATGTCGCTTACAGGTGTTATTTGTCTGTAAACTAGTCTGCAGATGT  
TTCTTGAATGCTTTGTCAAATTAAGAAAGTTAAAGTGCAATAATGTTTGAAGACAATAAGTGGTGGTGTATCTTG  
TTTCTAATAAGATAAACTTTTTTGTCTTTGCTTTATCTTATTAGGGAGTTGTATGTCAGTGTATAAACATACTG  
TGTGGTATAACAGGCTTAATAAATCTTTAAAGGAGAGAACTGAACTAGCCCTGTAGATTGTCTGGTGCATG  
TGATGAAACCTGCAGCTTTATCGGAGTGATGGCAATGCTCTGCTGGTTTATTTTCAAGTGGCTGCGTTTTTTTA  
GTTTGGCAGGTGTAGACTTTTTTAAGTTGGGCTTTAGAAAATCTGGGTTAGCCTGAAGAAAATTGCCTCAGCCTCC  
ACAGTACCATTTTAAATTCACATAAAAGGTGAAAGCTCCTGGTTCAGTGCCATGGCTTCATGGCATTCAAGTGAAT  
AGTGGTAATGGTAAACACTGGTGTGTTTTGAAGTTGAATGTGCGATAAAATTATTAGCCTTAAGATTGGTAAGCT  
AGCAATGAATGCTAGGGTGGGAAGCTGGTGAGCCAGTGGCCATTAGATAAATACCTTTCAAGTGTGAGCTTAGAC  
GTCAACCCTAAAATACTTAACCGTAATGCTAATTGTGATCATTATGAATCCCTTCAGTCACATTAGGGGGAAAGT  
AGTTGGCTATAAGTACGTCAATCTTAGTCCAGTCAGTCTTAAAAACATCTTGGGTTACCCACTCTGTCCACTCCC  
ATAGGCTACAGAAAAAGTCACAAGCGCATGGTTTTCCAACCATATGTGTTTTCTGCAGTTATTTCTTGTCTTG  
CCAAACAACCCTAAAAATCCTTACCATTCCACAAAGTTGGACCATCACTTGTGCACCCACTTTGACTATGAGTAT  
ACCACCACATTGCATTTCTGTTTGACCATGTCTTCCAGGAGACTAGACTACTGTTGTCCAGGGTCAATTTGAGT  
GTAAAGAAAATGTAGACAAGGAATTGCCCAATTTAAATCTGACTTTGCTGACTTAATTTAAATGCTCGTTCTG  
AACCAATTTTCTCCTATCTTCTTAGGGGTTTCAAAGACTCAGTTAATTGATTTCCAGGAAGTACTCATAGCAA  
GTTCAATAAAGTTCTTGAGACCTAAATTTCTTCAAAAAAAGAAAAGATCTTAAGTCATACATTTTAATTGTGT  
AGAGGTTGTTCAACTGAAGGAATAAATGTCTATTAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1077**

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRETRPDKARRLGYKAKQGYVIYRIRVRRGGGRKRPV  
PKGATYGKPVHHGVNQLKFARSLQSVAEERAGRHCALRVLSYWVGEDSTYKFFEVLIDPFHKAIRRNPDTQW  
ITKPVHKKHREMRLTSAGRKSRGLGKGHKFHHTIGGSRAAWRRRNTLQLHRYR

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**FIGURE 1078**

GTGACAGAAGTAGTAGGAAGTGAGCTGTTTCAGAGGCAGGAGGGTCTATTCTTTGCCAAAGGGGGGACCAGAATTC  
CCCCATGCGAGCTGTTTGAGGACTGGGATGCCGAGAACGCGAGCGATCCGAGCAGGGTTTGTCTGGGCACCGTCTG  
GGGTAGGATCCGGAACGCATTGGAAGGCTTTTTGCAAGCATTACTTGGAAGGAGAACTTGGGATCTTTCTGGG  
AACCCCCGCCCCGGCTGGATTGGCCGAGCAAGCCTGGAAAATGGTAAATGATCATTGGATCAATTACAGGCTT  
TTAGCTGGCTTGTCTGTCATAATTCATGATTGCGGGCTGGGAAAAAGACCAACAGCCTACGTGCCAAAAAGGGG  
CAGAGTTTGATGGAGTTGGGTGGACTTTTCTATGCCATTGCTCCACACCTAGAGGATAAGCACTTTTGCAGAC  
ATTCAGTGCAAGGGAGATCATGTTTGAAGTGTATGGATGTTCTGTCTAGTGAGTCCCTGGGCAAATCCTGGATTCTA  
CACTGCGAGTCCGTCTTCCTGCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGA  
ATGGCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACTCGTCCCAAGCCCCC  
ATCTCCACTTCTCTCCCCCTCGAGTGTACAAACCTGCTTCGCTGCCAGGACAAATCATCAGGGTACCACTATGG  
GGTCAGCGCTGTGAGGGATGTAAGGGCTTTTTCCGAGAAAGTATTCAGAAGAATATGATTTACACTTGTACCG  
AGATAAGAACTGTGTTATTAATAAAGTCACCAGGAATCGATGCCAATACIGTCGACTCCAGAAGTGCTTTGAAGT  
GGGAATGTCAAAGAATCTGTGAGGAATGACAGGAACAAGAAAAAGAGAGACTTCGAAGCAAGAATGCACAGA  
GAGCTATGAAATGACAGCTGAGTTGGACGATCTCACAGAGAAGATCCGAAAAGCTCACCAGGAACTTTCCCTTC  
ACTCTGCCAGCTGGGTAAATACACCACGAATTCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCTCTGGGA  
CAAATTCAGTGAAGTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGCTGCTGCTGGTTTCACTGG  
CTTGACCATCGCAGACCAAATTACCCTGCTGAAGGCCGCTGCTGGACATCCTGATTCTTAGAATTTGCACCAG  
GTATACCCCAAGAACACACCATGACTTTCTCAGACGGCCTTACCCTAAATCGAACTCAGATGCACATGCTGG  
ATTGGTCTCTGACTGACCTTGTGTTACCTTTGCCAACCAGCTCCTGCTTTGGAAATGGATGACACAGAAAC  
AGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAGCT  
ACAAGAACCATTGCTGGAAGCACTAAAAATTTATATCAGAAAAAGACGCCAGCAAGCCTCACATGTTTCCAAA  
GATCTTAATGAAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTAAATACCTTGAAAATGGA  
AATTCCTGGATCAATGCCACCTCTCATTCAAGAAATGCTGGAGAAATCTGAAGGACATGAACCTTGACCCCAAG  
TTCAAGTGGGAACACAGCAGAGCACAGTCTAGCATCTCACCAGCTCAGTGGAACAGTGGGGTCACTCAGTC  
ACCACTCGTGAATAAGACATTTTCTAGCTACTTCAAACATTCCTCAGTACCTTCACTTCCAGGATTTAAAAATGC  
AAGAAAAACATTTTACTGCTGCTTAGTTTTTGGACTGAAAAGATATTAAGTCAAGAGGACCAAGAAGTTT  
TCATATGTATCAATATATATACTCCTCACTGTGTAACCTTACCTAGAAATACAACTTTTCCAATTTTAAAAATC  
AGCCATTTTATGCAACCAGAACTAGTTAAAAGCTTCTATTTTCTCTTTGAACACTCAAGATTGCATGGCAAAG  
ACCCAGTCAAAATGATTTACCCCTGGTTAAGTTTCTGAAGACTTTGTACATACAGAAGTATGGCTCTGTTCTTTC  
TATACTGTATGTTTGGTGCTTTTCTTTTGTCTTGCACTCAAAATAACCATGACACCAAGGTTATGAAATAGAC  
TACTGTACACGTCTACCTAGGTTCAAAAAGATAACTGTCTTGCTTTCATGGAATAGTCAAGACATCAAGGTAAGG  
AAACAGGACTATTGACAGGACTATTGTACAGTATGACAAGATAAGGCTGAAGATATCTACTTTAGTTAGTATGG  
AAGCTTGTCTTTGCTCTTTCTGATGCTCTCAAACTGCATCTTTTATTTTATGTTGCCAGTAAAAGTATACAAAT  
TCCCTGCACTAGCAGAAGAGAATTCTGTATCAGTGTAAGTCCAGTTCAGTTAATCAAATGTCATTTGTCAATT  
GTTAATGTCATTTTAAATTAAAAGTGGTTTATTACTTGTGTTAATGACATAACTACACAGTTAGTTAAAAAAAT  
TTTTTACAGTAATGATAGCCTCCAAGGCAGAAACACTTTTCACTGTTAAGTTTTTGTGTTACTTGTTCACAAGCCA  
TTAGGGAAATTTTATGGGATAATTAGCAGGCTGGTCTACCACCTGGACCATGTAAGTCTAGTGCTCTCCTGATT  
CATGCTGATATTGGGATTTTTTTTCCAGCCTTCTGATGCCAAGGGGCTAATTAATATTAACAACCTCCCAAAG  
AAACAGGCATAGAATCTGCCTCCTTTGACCTTGTCAATCACTATGAAGCAGAGTGAAAGCTGTGGTAGAGTGGT  
TAACAGATACAAGTGTCTAGTTCTAGTTCTCAATTAAGCACTAGTGGAATTTTTTTTTTTTATATATTAGCAA  
GTCTGTGATGTAATTTCACTGGCTCTGTTTGTACATTGAGATTGTTGTTTAAACAATGCTTTCTATGTTTATATA  
CTGTTTACCTTTTTCATGGAGTCTCCTGGCAAAGAATAAAATATATTTATTTT

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**FIGURE 1079A**

ATGGCCAAGTCGGGTGGCTGCGGCGCGGGAGCCGGCGTGGGCGGCGGCAACGGGGCACTGACCTGGGTGAACAAT  
GCTGCAAAAAAGAAGAGTCAGAAACTGCCAACAAAAATGATTCTTCAAAGAAGTTGTCTGTTGAGAGAGTGTAT  
CAGAAGAAGACACAACCTTGAACACATTCTTCTTCGTCTGATACATATATTGGGTCAGTGGAGCCATTGACGCAG  
TTCATGTGGGTGTATGATGAAGATGTAGGAATGAATTGCAGGGAGGTTACCTTTGTGCCAGGTTTATACAAGATC  
TTTGATGAAATTTTGGTTAATGCTGCTGACAATAAACAGAGGGATAAGAACATGACTTGTATTAAAGTTTCTATT  
GATCCTGAATCTAACATTATAAGCATTGGGAATAATGGGAAAGGCATTCCAGTAGTAGAACACAAGGTAGAGAAA  
GTTTATGTTCTGCTTTAATTTTTGGACAGCTTTTAACATCCAGTAACTATGATGATGATGAGAAAAAGTTACA  
GGTGGTCGTAATGGTTATGGTGCAAACTTTGTAATATTTTCAGTACAAAGTTTACAGTAGAAACAGCTTGCAAA  
GAATACAAACACAGTTTTAAGCAGACATGGATGAATAATATGATGAAGACTTCTGAAGCCAAAATTAAACATTTT  
GATGGTGAAGATTACACATGCATAACATTCCAACCAGATCTGTCCAAATTTAAGATGGAAAACTTGACAAGGAT  
ATTGTGGCCCTCATGACTAGAAGGGCATATGATTTGGCTGGTTCGTGTAGAGGGGTCAAGGTCATGTTTAAATGGA  
AAGAAATTGCCTGTAAATGGATTTTCGCAGTTATGTAGATCTTTATGTGAAAGACAAATTGGATGAAACTGGGGTG  
GCCCTGAAAGTTATTTCATGAGCTTGCAATGAAAGATGGGATGTTTGTCTCACATTGAGTGAAAAAGGATTCCAG  
CAAATCAGCTTTGTAAATAGTATTGCAACTACAAAAGGTGGACGGCACGTGGATTATGTGGTAGATCAAGTTGTT  
GGTAACTGATTGAAGTAGTTAAGAAAAAGAACAAAGCTGGTGATCAGTGAAACCATTTCAGTAAAAAACCAT  
ATATGGGTTTTTATTAAATTCCTTATTGAAAAATCCAACCTTTTGATTCTCAGACTAAGGAAAACATGACTCTGCAG  
CCCAAAAGTTTTGGGTCTAAATGCCAGCTGTGCAAAAAATTTTTAAAGCAGCCTCTAATTGTGGCATTGTAGAA  
AGTATCCTGAACTGGGTGAAATTTAAGGCTCAGACTCAGCTGAATAAGAAGTGTTCATCAGTAAATACAGTAAA  
ATCAAAGGTATTCCCAAATCGGATGATGCTAATGATGCTGGTGGTAAACATTCCCTGGAGTGACACTGATATTA  
ACAGAGGGGAGACTCTGCCAAATCACTGGCTGTGTCTGGATTAGGTGTGATTGGACGAGACAGATACGGAGTTTTT  
CCACTCAGGGGCAAAATCTTAATGTACGGGAAGCTTCTCATAAACAGATCATGGAAAATGCTGAAATAAATAAT  
ATTATTAATAATAGTTGGTCTACAATATAAGAAAAGTTACGATGATGCAGAATCTCTGAAAACCTTACGCTATGGA  
AAGATTATGATTATGACCGATCAGGATCAAGATGGTTCTCACATAAAAGGCCTGCTTATTAATTTTCATCCATCAC  
AATTGGCCATCACTTTTGAAGCATGGTTTTCTTGAAGAGTTCATTACTCCTATTGTAAAGGCAAGCAAAAATAAG  
CAGGAACCTTCTCTTCTACAGTATTCTTGAATTTGACGAATGGAAAAACATATAGAAAACCAGAAAGCCTGGAAA  
ATAAAGTACTATAAAGGATTGGGTACTAGTACAGCTAAAGAAGCAAGGAATATTTGCTGATATGGAAAGGCAT  
CGCATCTTGTTTAGATATGCTGGTCTGAAGATGATGCTGCCATTACCTTGGCATTAGTAAGAAGAAGATTGAT  
GACAGAAAAGAATGGTTAACAAATTTTATGGAAGACCGGAGACAGCGTAGGCTACATGGCTTACCAGAGCAATTT  
TTATATGGTACTGCAACAAAGCATTGACTTATAATGATTTTCATCAACAAGGAATTGATTCTCTTCTCAAACCTCA  
GACAATGAAAGATCTATACCATCTCTTGTGTAGGCTTTAAACCTGGCCAGCGGAAAGTTTTATTACCTGTTTC  
AAGAGGAATGATAAACGTGAAGTAAAGTTGCCAGTTGGCTGGCTCTGTTGCTGAGATGTCGGCTTATCATCAT  
GGAGAACAAAGCATTGATGATGACTATTGTGAATTTGGCTCAGAACTTTGTGGGAAGTAACAACATTAACCTTGCTT  
CAGCCTATTGGTCAGTTTGGAACTCGGCTTCATGGTGGCAAAGATGCTGCAAGCCCTCGTTATATTTTACACAATG  
TTAAGCACTTTAGCAAGGCTACTTTTTCTGCTGTGGATGACAACCTCCTTAAGTTCCTTTATGATGATAATCAA  
CGTGTAGAGCCTGAGTGGTATATTCTTATAATTCCCATGGTTTTAATAAATGGTGTGAGGGCATTGGTACTGGA  
TGGGCTTGTAACCTACCCAACTATGATGCTAGGGAAATTGTGAACAATGTGACAGCAATGCTAGATGGCCTGGAT  
CCTCATCCCATGCTTCCAACTACAAAACTTTAAAGGCACGATTCAGAAGCTTGGTCAAAACAGTATGCAGTC  
AGTGGTGAAATATTTGTAGTGGACAGAAACACAGTAGAAATTACAGAGCTTCCAGTTAGAACTTGGACACAGGTA  
TATAAAGAACAGGTTTTAGAACCTATGCTAAATGGAACAGATAAAACACCAGCATTAAATTTCTGATTATAAAGAA  
TATCATACTGACACAACGTGAAATTTGTGGTGAATAAGTACTGAAGAGAACTAGCACAAAGCAGAGCTGCTGGA  
CTGCATAAAGTTTTTAACTTCAAACCTACTTACTTGTAAATTCATGGTACTTTTTGATCATATGGGATGTCTG  
AAGAAATATGAACTGTGCAAGACATTCTGAAAGAATCTTTGATTACGATTAAGTTATTACGTTTACGTAAG  
GAGTGGCTTGTGGGAATGTTGGGAGCAGAATCTACAAAGCTTAAACAATCAAGCCCGTTTCATTTTAGAGAAGATA  
CAAGGGAAAATTACTATAGAGAATAGGTCAAAGAAAGATTTGATTCAAATGTTAGTCCAGAGAGGTTATGAATCT  
GACCCAGTGAAAGCCTGGAAAGAAGCACAAGAAAAGGCAGCAGAGAGGATGAAACACAAAACAGCATGATGAT  
AGTTCCTCCGATTACAGAACTCCTTCAGGCCAGATTTAATTATATTTTAAATATGTCTCTGTGGTCTCTTACT  
AAAGAAAAAGTTGAAGAACTGATTAAACAGAGAGATGCAAAAGGGCGAGAGGTCAATGATCTTAAAGAAAAATCT  
CCTTCAGATCTTTGAAAGAGGATTTAGCGGCATTTGTTGAAGAACTGGATAAAGTGAATCTCAAGAACGAGAA

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**FIGURE 1079B**

GATGTTCTGGCTGGAATGTCTGGAAAAGCAATTAAAGGTAAAGTTGGCAAACCTAAGGTGAAGAACTCCAGTTG  
GAAGAGACAATGCCCTCACCTTATGGCAGAAGAATAATTCCTGAAATTACAGCTATGAAGGCAGATGCCAGCAAA  
AAGTTGCTGAAGAAGAAGAAGGGTGATCTTGATACTGCAGCAGTAAAAGTGGAATTTGATGAAGAATTCAGTGGA  
GCACCACTAGAAGGTGCAGGAGAAGAGGCATTGACTCCATCAGTTCCATAAATAAAGGTCCCAAACCTAAGAGG  
GAGAAGAAGGAGCCTGGTACCAGAGTGAGAAAAACACCTACATCATCTGGTAAACCTAGTGCAAAGAAAGTGAAG  
AAACGGAATCCTTGGTCAGATGATGAATCCAAGTCAGAAAGTGATTTGGAAGAAACAGAACCTGTGGTTATTCCA  
AGAGATTCTTTGCTTAGGAGAGCAGCAGCCGAAAGACCTAAATACACATTTGATTTCTCAGAAGAAGAGGATGAT  
GATGCTGATGATGATGATGATGACAATAATGATTTAGAGGAATTGAAAGTTAAAGCATCTCCATAACAAATGAT  
GGGGAAGATGAATTTGTTCCCTTCAGATGGGTTAGATAAAGATGAATATACATTTTCACCAGGCAAAATCAAAAGCC  
ACTCCAGAAAAATCTTTGCATGACAAAAAAGTCAGGATTTTGGAATCTCTTCTCATTTCCTTCATATCTCAG  
AAGTCAGAAGATGATTCAGCTAAATTTGACAGTAATGAAGAAGATTCTGCTTCTGTTTTTTCACCATCATTGGT  
CTGAAACAGACAGATAAAGTTCCAAGTAAAACGGTAGCTGCTAAAAAGGGAAAACCGTCTTCAGATACAGTCCCT  
AAGCCCCAAGAGAGCCCCAAAACAGAAGAAAGTAGTAGAGGCTGTAAACTCTGACTCGGATTCAGAATTTGGCATT  
CCAAAGAAGACTACAACACCAAAAAGGTAAAGGCCGAGGGGCAAGAAAAGGAAAGCATCTGGCTCTGAAAATGAA  
GGCGATTATAACCCTGGCAGGAAAACATCCAAAACAACAAGCAAGAAACCGAAGAAGACATCTTTTGATCAGGAT  
TCAGATGTGGACATCTTCCCCCTCAGACTTCCCTACTGAGCCACCTTCTCTGCCACGAACCGGTGCGGCTAGGAAA  
GAAGTAAATATTTTGCAGAGTCTGATGAAGAAGAAGATGATGTTGATTTTGCAATGTTTAATTAAGTGCCCAAA  
GAGCACAAACATTTTCAACAAATATCTTGTTGTCTTTTGTCTTCTCTGCTCAGACTTTTGTACATCTGGC  
TTATTTTAATGTGATGATGTAATTGACGGTTTTTTATTATTGGGTAGGCCTTTTAACATTTTGTTCCTTACACAT  
ACAGTTTTATGCTCTTTTTTACTCATTGAAATGTCACGTACTGCTGATTGGCTTGTAGAATTGTTATAGACTGC  
CGTGCAATTAGCACAGATTTTAATTGTCATGGTTACAAACTACAGACCTGCTTTTTGAAATGAAATTTAAACATTA  
AAAATGGAACCTGTG



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**FIGURE 1080**

MAKSGGCGAGAGVGGGNGALTWVNNAAKKEESETANKNDSSKKLSVERVYQKKTQLEHILLRPDTYIGSVEPLTQ  
FMWVYDEDVGMNCREVTFVPGLYKIFDEILVNAADNKQRDKNMTCIKVSIDPESNIIISIWNNGKIPVVEHKVEK  
VYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETACKEYKHSFKQTWMNNMMKTSEAKIKHF  
DGEDYTCITFPDLKFKMEKLDKDIVALMTRRAYDLAGSCRGVKVMFNGKKLPVNGFRSYVDLYVKDKLDETGV  
ALKVIHELANERWDVCLTLSEKGFQOISFVNSIATTKGGRHVDYVVDQVVGKLEVVKKKNKAGVSVKPFQVKNH  
IWFVINCLIENPTFDSQTKENMTLQPKSFGSKCQLSEKFFKAASNCGIVESILNWVKFKAQTQLNKKCSSVKYSK  
IKGIPKLDDANDAGGKHSLECTLILTEGDSAKSLAVSGLGVIGRDRYGVFPLRGKILNVREASHQIMENAEINN  
IIKIVGLQYKKSYYDDAESLKTLYGKIMIMTDQDQDGSNIKGLLINFIIHNWPSLLKHGFLEEFITPIVKASKNK  
QELSFYSIPEFDEWKKHIENQKAWKIKYKGLGTSTAKEAKEYFADMERHRILFRYAGPEDDAAITLAFSKKKID  
DRKEWLTNFMEDRRQRRLHGLPEQFLYGTATKHLTYNDFINKELILFSNSDNERSIPSLVDGFKPGQRKVLFTCF  
KRNDKREVKVAQLAGSVAEMSAYHHGEQALMMTIVNLAQNFVGSNNINLLQPIGQFCTRLHGGKDAASPRYIFTM  
LSTLARLLFPAVDDNLLKFLYDDNQRVEPEWYIPIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRMLDGLD  
PHPMLPNYKNFKGTIQELGQNYAVSGEIFVDRNTVEITELPVRTWTQVYKEQVLEPMLNGTDKTPALISDYKE  
YHTDITVKFVVKMTEEKLAQAEAAGLHKVFKLQTTLCNSMVLFDMGCLKKYETVQDILKEFFDLRLSYGLRK  
EVLVGLMGAESTKLNNQARFILEKIQGKITIENRSKDLIQMLVQRGYESDPVKAWKEAQEKAAEEDETONQHDD  
SSSDSGTPSGPDFNYILNMSLWSLTKEKVEELIKQORDAKGREVNDLKRKSPDLWKEDLAAFVEELDKVESQERE  
DVLAGMSGKAIKKGKVGKPKVKKLQLEETMPSPYGRRIIPEITAMKADASKLLKKKKGDLDTAAVKVEFDEEFG  
APVEGAGEEALTPSVPINKGPKPKREKKEPGTRVRKTPITSSGKPSAKKVKKRNPWSDESSESLEETEPVVI  
RDSLLRRAAAERPKYTFDFSEEDDDADDDDDNDLEELKVKASPIITNDGEDEFVPSDGLDKDEYTFSPGKSKA  
TPEKSLHDKKSQDFGNLFSFPSYSQKSEDDSAKFDSNEEDSASVFSFGLKQTDKVPSTVAACKGKPSDTPV  
KPKRAPKQKKVVEAVNSDSEFGIPKKTTPKGKGRGAKKRKASGENEGDYNPGRKTSKTTSKPKKTSFDQD  
SDVDIFPSDFPTEPPSLPRTGRARKEVKYFAESDEEEDDVFAMFN

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**FIGURE 1081**

GAGAAGGCCCCAGGAAGTGACGGCCGCTCCCGGCTACCGGGGACTTCTGGAGTCCGAGAAGTCAACGGCGCGGTT  
GCTGCGGCCCGCCGCGCTCCCCGGCCCGAGGCGATGGAGAACGGAGCGGTGTACAGCCCCACTACGGAGGAGGACC  
CGGGCCCCGCCAGAGGCCCGCGAGCGGCCTCGCTGCCTACTTTTTTCATGGGCCGGCTCCCATTGCTCCGGCGCG  
TTCTCAAGGGCTTGCAAGTGTGCTGTCTCTGCTGGCCTTCATCTGTGAAGAAGTTGTATCACAATGTACTTTAT  
GTGGAGGACTTTATTTTTTTGAGTTTGTAAGCTGCAGTGCCTTTCTTCTGAGTCTCCTTATACTGATTGTGTATT  
GCACTCCATTTTATGAGAGAGTTGATACCACAAAAGTAAAATCATCGGATTTTATATTACTTTGGGAACAGGAT  
GTGTGTTTTTGTGGCATCCAATCATTTTTGTTTCCACACATGACAGGACTTCAGCTGAGATTGCTGCAATTGTGT  
TTGGATTATAGCAAGTTTTATGTTCTACTTGACTTTATCACTATGCTGTATGAAAAACGACAGGAGTCCCAGC  
TGAGAAAACCTGAAAATACCACTAGGGCTGAAGCCCTCACTGAGCCACTTAATGCCATAAGACTCTGGGGAGCAG  
ATGTTACCTAAGGTAGTGACCTGCATTGTGGTGCCTGAGCCCTGGCAGAAGCTCTTGTAATAATTGTTAATTGT  
TTAAACCACTTCTTTTGGAGAGCAAGGGGAAGGTCAAGAAGGCAGTTTTATCAATATTGTGTGTCAGTCACCACAA  
GTAGGCCAGATAAGTTAAAAAATTTTTTTTTAAATAATAATTGAACTTATCTCAAATGGAGATTTTGGTGGG  
AGGAGGAGAAAAAATTTGTTTTAAATCACACAGCTCAACGGTTGATAAATGATTCTGTCAATTCTGTTACAGGTC  
ATTCCTTTACTAGGCTTAGCTTCCAAATTATGCTTTATAGCTGTATAAACATCGTGATTATATTCACTACTTAG  
AAATTGTTTTATTTTTAAATTAATTTGCTTAGCTGTTTGTGTTGATGCTTAGATTATGTTCTGTTAATGGGAATT  
TAACATATTTAAGAAACCAATATTTAAATGTTGGTCTAGGTTTTTTCCTTAACATATATTACCAGGCTTTACT  
GTATTTCACTCAGCCTTAAATGTTATAATATTTTGGATAACGGTTATTAATCTTTGAGACCTTCGTATAGCCT  
ATAAAATGTATGGGAGATGTTGGTATTTTATGTGTATAAAAGCAACAATATCAGCAACTTCGTGTTTATACTGCA  
CCTTGTTGTTGATGTCAAGTAAAAAAGATTGTTTTGTAAACACATAAAAAAATGGAAGAACTGATACCACAC  
CTAAGGACCAAGATAAGAAAGACTTTTGGCCAAGACAGTGAAAGTAATTATAAAACAAGCTTTGACCACTTA  
CCAAGTATCTGAAGAGATGAGTTCATACTATGATTTAGAAAGTGGTTCGATTCCCCTGTTGGCATATGATTATTT  
TTACTAAAATTAATACAGCTCTGTGGGTCTTCCTTAGTGTTTTCTTTGAAGCCAATCTGTTTTTTTTAGGACACC  
AGCCTTTGGTTTTTCATCTGTTTCGAGATGCCTCTCTCTGTCTCCTTATCAGATAGAAATGGAGTCATGTGCTGC  
TGCTTCATCTAGCAGAGGTTGGCCTCTGGCTCTGACACTTTTTGTGAGTTGTCTTTAGGTGGTCCGTAATCTTGG  
GCCCTTTGATTGTGAATACTGTGTAGCAGGATCTTGAGAGTCCTTGTTCTTACATAGGCATTGCTCTAGTTTGT  
CTTTGGCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1082**

MENGAVYSPTTEEDPGPARGPRSGLAAYFFMGRLPLLRVLKGLQLLSLLAFICEEVVSQCTLCGGLYFFEFVS  
CSAFLLSLLILIVYCTPFYERVDTTKVKSSDFYITLGTGCVFLLASIIFVSTHDRTSAEIAAIVFGFIASFMFLL  
DFITIMLYEKRQESQLRKPENTTRAELTEPLNA

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**FIGURE 1083**

ATGGATGCTGTGTGCTATGGTGAAGCTGTTTCTTCCCAGCAGCAGGGAGAGAAAAAGGAGAAGAGGAAACACAAG  
AAGAAATGCGTGGTGCAGAGCCTCAATTCCTACTTCATGGATGTGAAATGCCCAGGATGCTATAAAATCACTACA  
GCAGTTTCTAATTCCTGCAATTTTCCCCTTAATGGCTCTCCGGATGTTGCCACTGATTATGGTGCCGTTTCATGGC  
TCTTCAGCAGGTGCTGGGCATAGGCACCAGGAAGCCCTGTTTAATAGTGTGTCTGCCTTTCCCTTTACATGCTCCC  
TCGGGTGAAGCAAGGCAGATGGAGAAGGCTTTAGCAGACAGCGTGGGCATGTTTCCAAGCCCTCAGGCTGCTGAG  
CAACAATGCCGATGCCAGCACCAACAGGCTGAGGTGGCTTCTTCATTTTAG

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**FIGURE 1084**

MDAVCYGEAVSSQQQGEKKEKRKHKKKCVVQSLNSYFMDVKCPGCKITTAVSNSCNFPLNGSPDVATDYGAVHG  
SSAGAGHRHQEALFNSVSAFPLHAPSGEARQMEKALADSVGMFPSPQAAEQQCRCQHQAEEVASSF

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**FIGURE 1085**

GCTAAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGAAGTTGGACAGGGCTCAGGAAAGA  
CTGGCCACGGCCCCGCAGAAGCTGGAGGAGGCAGAAAAAGCTGCAGATGAGAGTGAGAGAGGAATGAAGGTGATA  
GAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAATTCAGGAGCTGCAGCTCAAAGAGGCCAAGCACATTGCG  
GAAGAGGCTGACCGCAAATACTGGGAGGTAGCTCGTAAGCTGGTCTTCCTGGAGGGTGAGCTGGAGAGGGCAGAG  
GAGCGTGTGGAGGTGTCTGAACTAAATGTGGTGACCTGAAGAAGAACTCAAGAATGTTACTAACAATCTGAAA  
TCTCTGGAGGCTGCGTCTGAAAAGTATTCTGAAAAGGAGGACAAATGTGAAGAAGAAATTAACTTCTGTGTGAC  
AAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAACGGTTGCAAACTGGAAAAGACAATTGATGAC  
CTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCTTACATCAGACACTGGATCAGACACTAAACGAG  
CTTAAGTGTATATAAGCAAAACAGAAGAGTCTTGTTCCAACAGAACTCCGGAGCTCCGTGGGTCTTTCTCTTCT  
CTTGTAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTGCTGGAAATGTCAAGCAAATTATGAATACATGACCA  
AATATTTTGTATTGGAGAAGCTTTGAGCACGAGTTAAATCTCATGCCTTCCCTTTTTTGTCAAATGGCACCAC  
TTTTTCAGCTCTCTTATTTTTTCCTTAAGTTGCATTTATTCCTAAGGTAGGCAGGGTATTTCTAGTAAGCATAG  
TTTCTTAAGACAGAGGCCATTTGGTTCCTGGGAGAATAGGCAGCCCCACACTTTGAAGAACACAGACCCAGTAT  
CTAGTCGTGGATATGATTAAAACGCTGAAGACCACAACCTTTGGGTCAACTGTTGGTCAAATATAGGAGAGAC  
CAGGGACCACCCACTCCTATTTATTCAGCACCACACTACCCAGGAAATACACTAGCAAATTGTGCAATGGAATA  
AAATCCACACTTTACTTTAGATTCTTGCAACTGTATCATATGTAATAGTATCACTTTTTCTACATTTTGGTCAAA  
TAAATTTTTACATAAACTAC

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**FIGURE 1086**

AGCTCATCCACACTTCCAATCACTTTCCGGAGTGCTTCCCCTCCCTCCGGCCCGTGCTGGTCCCGACGGCGGGCC  
TGGGTCTCGCGCGCGTATTGCTGGGTAACGGGCCCTTCTCCCGCGTCCGGCCCGGCCCTCCTGCCTCGGCTCGTCC  
CTCCTTCCAGAACGTCCCGGGCTCCTGCCGAGTCAGAAGAAATGGGACTCCCTCCGCGACGTGCCCGGAGCAGCT  
CCCTTCGCTGTGGAAGCGCGGTGTCTTCGAAGAAACCGGAAGCCCGTGGTGACCCCTGGCGACCCGGTTTGT  
TCGGTCCGTTTCCAAACACTAAGGAATCGAAACTCGGCGGCCTTGGGGGCGGCCCTACGTAGCCTGGCTTCTGGT  
TGTCATGGATGCACTGGTAGAAGATGATATCTGTATTCTGAATCATGAAAAGCCCATAAGAGAGATACAGTGAC  
CCCAGTTTCAATATATTAGGAGATGAATCTGTGCTTCCCATTTTGCTCTTGCTACTGCATATGAAGACATCAA  
AAAACGACTTAAGGATTAGAGAAAGAGAATCTTTGTTAAAGAAGAGAATAAGATTTTGAAGAAAAGCTAAT  
AGCTCGATTTGAAGAAGAAACAAGTTCCGTGGGACGAGAACAAAGTAAATAAGGCCTATCATGCATATCGAGAGGT  
TTGCATTGATAGAGATAATTTGAAGAGCAAACCTGGACAAAATGAATAAAGACAACTCTGAATCTTTGAAAGTATT  
GAATGAGCAGCTACAATCTAAAGAAGTAGAACTCCTCCAGCTGAGGACAGAGGTGGAACTCAGCAGGTGATGAG  
GAATTTAAATCCACCTTCAATCAAACTGGGAGGTGGAAAAGTTGAGCTGTGACCTGAAGATCCATGGTTTGAACA  
AGAGCTGGAACCTGATGAGGAAAGAATGTAGCGATCTCAAAATAGAACTACAGAAAGCCAAACAACCGGATCCATA  
TCAGGAAGACAATCTGAAGAGCAGAGATCTCCAAAACCTAAGCATTTCAAGTGATAATATGCAGCATGCATACTG  
GGAACCTGAAGAGAGAAATGTCTAATTTACATCTGGTGACTCAAGTACAAGCTGAACTACTAAGAAAACCTGAAAAC  
CTCAACTGCAATCAAGAAAGCCTGTGCCCTGTAGGATGCAGTGAAGACCTTGGAAAGAGACAGCACAAAACCTGCA  
CTTGATGAATTTTACTGCAACATACACAAGACATCCCCCTCTCTTACCAATGGCAAAGCTCTTTGTCATACCAC  
ATCTTCCCCTTTACCAGGAGATGTAAAGGTTTATCAGAGAAAGCAATCCTCCAATCATGGACAGACAATGAGAG  
ATCCATTCCCTAATGATGGTACATGCTTTTACGGAACACAGTTCTTATGGCAGAAATCTCTGGAAGACAATTCCTG  
GGTATTTCCAAGTCTCTCTAAATCAAGTGAGACAGCATTGGGGGAACTAAACCTAAACCTTTGCCTTTACCCAA  
CCTTCCACCACTGCATTACTTGGATCAACATAATCAGAACTGCCTTTATAAGAATTAAATTTGGAAGAGATTACAG  
ATTTACCATGAGGACACTTATCTCTTTTCAAGTGGTCTCCCAAGAAATTATTTAACAACTGAAAGGAGATTTTG  
ATTAATTTTTCAGAGGTCTTCAAGTATCTATTTTGAACACACTGTACAATAGTACAAAACCAACATAGTTGG  
TTTTCTAGTATGAAAGAGCACCCCTCTAGCTCCATATTCTAAGAATCTGAAATATGCTACTATACTAATTAATAAG  
TAACTTAAGGTGTTTTAAAAAATCTGCCTTCTATATTAATTGTAAAATTTGCCTCTCAGAAGAATGGAATTGG  
AGATTGTAGACGTGGTTTTACAAAATGTGAAATGTCTAAATATCTGTTTCAAAAAATAAAGGAAAACATGTTTC  
TTCAAATTGCATAATGGAACAAATGGCAATGTGAGTAGGTTACATTCTGTTGTTATAATGCGTAAAGATATTGA  
AAATATAATGAAATAAAGCATCTTAGGTTATACCATCTTTATATGCTATTGCGTTTCAATATTTAAGATTTAAA  
GTGATTTTTTGGTCACAGTGTGTTGTTGATAAAATTTTTTAGAATTGAAGTTGAATCTAAGACTTGAACAA  
CCTGATCATTGAAGCCAACCTTGTCCCAGCACATTCCTTAAGTCCTAATTGGGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1087**

MDALVEDDICILNHEKAHKRDTVTPVSIYSGDESVASHFALVTAYEDIKKRLKDSEKENSLLKKRIRFLEEKLIA  
RFEEETSSVGREQVNKAYHAYREVCIDRDNLSKLDKMNKDNSES LKVLNEQLQSKEVELLQLRTEVETQQVMRN  
LNPPSSNWEVEKLSCDLKIHGLEQELELMRKECSDLKIELQKAKQTDPTYQEDNLKSRDLQKLSISSDNMQHAYWE  
LKREMSNLHLVTQVQAELLRKLTSTAIKKACAPVGCSEDLGRDSTKLHLMNFTATYTRHPPLLPNGKALCHTTS  
SPLPGDVKVLSEKAILQSWIDNERSIPNDGTCFQEHSSYGRNSLEDNSWVFPSPPKSSETAFGETKTKTLPLPNL  
PPLHYLDQHNQNC LYKN



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**FIGURE 1088**

GCATGGAGCCGGGGCGCCGGGGGGCGCGCGCTGCTAGCGCTGCTGTGCGTGGCCTGCGCGCTGCGCGCCGGG  
CGCGCCCAATACGAACGCTACAGCTTCCGCAGCTTCCACGGGACGAGCTGATGCCGCTCGAGTCGGCCTACCGG  
CACGCGCTGGACAAGTACAGCGGCGAGCACTGGGCCGAGAGCGTGGGCTACCTGGAGATCAGCCTGCGGCTGCAC  
CGCTTGCTGCGCGACAGCGAGGCCCTTTCGCCACCGCAACTGCAGCGCCGCGCCGAGCCCGAGCCCGCGCCGGC  
CTCGCCAGCTATCCCGAGCTGCGCCTTTCGGGGGCTGCTGCGCCGCGCGCACTGCCTCAAGCGCTGCAAGCAG  
GGCCTGCCAGCCTTCCGCCAGTCCCAGCCCAGCCGCGAGGTGCTGGCGGACTTCCAGCGCCGCGAGCCCTACAAG  
TTCCTGCAGTTGCTTACTTCAAGGCAATAATCTCCCCAAAGCCATCGCCGCTGCTCACACCTTTCTACTGAAG  
CATCCTGATGACGAAATGATGAAGAGGAACATGGCATATTATAAGAGCCTGCCTGGTGCCGAGGACTACATTAA  
GACCTGGAAACCAAGTCATATGAAAGCCTGTTTCATCCGAGCAGTGCGGGCATACAACGGTGAGAACTGGAGAACA  
TCCATCACAGACATGGAGCTGGCCCTTCCCGACTTCTTCAAAGCCTTTTACGAGTGTCTCGCAGCCTGCGAGGGT  
TCCAGGGAGATCAAGGACTTCAAGGATTCTACCTTTCCATAGCAGATCATTATGTAGAAGTTCTGGAATGCAAA  
ATACAGTGTGAAGAGAACCTCACCCAGTTATAGGAGGCTATCCGTTGAGAAATTTGTGGCTACCATGTATCAT  
TACTTGCACTTTGCTTATTATAAGTTGAACGACCTGAAGAATGCAGCCCCCTGTGCAGTCAGCTATCTGCTCTTT  
GATCAGAATGACAAGGTGATGCAGCAGAACCTGGTGTATTACAGTACCACAGGGACACTTGGGGCCTCTCGGAT  
GAGCACTTCCAGCCCAGACCTGAAGCAGTTCAGTTCTTTAATGTGACCACACTCCAGAAGGAGCTGTATGACTTT  
GCTAAGGAAAATATAATGGATGATGATGAGGGAGAAGTTGTGGAATATGTGGATGACCTCTTGGAAGTGGAGGAG  
ACCAGCTAGCCACAGCAACCAAGAGACTTCCTCTTGGCGTTTCAGGAAACACAGATTCTTTGTCCTTTTCCCAA  
CAGCCCAGGCTGTTGATACCTCAGAGCCTTCTCTTTACTCTCCAAAGTGAAAGGGAAGCCCCGCTCTCTCTAACT  
GCATGTCATCAGGGGTGAGCCTGCCTTTCTCTATCTTCACACCTGCCACCTCATGTTACACCTATCTTTCTCACC  
TTTTTTTTGAGATGGAGTCTCGCTCTCTTGCCAGGCTGGAGTGCAATGGCACGTTCTCAGCTCACTGCAACCTC  
CGCTCTTGGGTTCAAGCAATICTGCTGCATCAGCCTCCCGAGTACCTGGGATTACAGGCATGTGCCACCCAGCC  
CGGCTAATTTTGTATTTTGTAGTAGAGACGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCTTGACTTCAG  
ATGATCCATCTGCCTTGGCCTCCACAGTGTGGGATTACAGGCGTGAGCCACCATGCCCGGCCCTCTTTCTCACC  
TTTACACCTGTCTTCTTATCCTCACATCTGTTTTTACACCTTCATCCCTGTCTTCTCTCATGTTACACTTGTCTT  
CCCCATGTTTCATAGCTGCCCTTTCTTACCATTTTGGTTTGAAGGGCAGTCTTCTCTGGCTTGTTTTTTGTTTTTC  
CCAGAAAATCAGTATTATTTTTTAAATAAGAAAAACATTCCTAGAAGATGATAATTGTGAAAACCTCCTTTGGCT  
TATTGCTTTTCCAGATTTTAGTCTCCTTTCTCCCCATCCGGGAAAGATGGTGGGAAGACATAGGCTAAATTTCTC  
CAGCCTCACAAATGGTCTTCACTTGGTCTGACTTGTACCAATTCTAGCACCCACTGAAAAACAAGTTGAGTAGAGA  
GTGTAGAGTGCAGAAATGTGGCTTTTGCCCCACTTTGCATCTCCAAAATTACAACGGTTGGCCGATCCCATTGTA  
GGACAATGCTTAGTTATAAGTCTCCGAGTTGGAAAAGGAAGAAAGCCAGAGCTGTCTAGTTTCATTTCATTTTC  
AGTAAATATTTATTGAGT

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**FIGURE 1089**

GAATTCGGGCGCGAAGCGGCCGGCCTGGGCGCCGACTGCAGAGCCGGGAGGCTGGTGGTCAATGCCGGGGTTCTTG  
GTTTCGCATCCTCCTTCTGCTGCTGGTTCTGCTGCTTCTGGGCCCTACGCGCGGCTTGC GCAATGCCACCCAGAGG  
ATGTTTGAAATTGACTATAGCCGGGACTCCTTCTCAAGGATGGCCAGCCATTTCGCTACATCTCAGGAAGCATT  
CACTACTCCCGTGTGCCCCGCTTCTACTGGAAGGACCGGCTGCTGAAGATGAAGATGGCTGGGCTGAACGCCATC  
CAGACGTATGTGCCCTGGAACCTTTCATGAGCCCTGGCCAGGACAGTACCAGTTTCTGAGGACCATGATGTGGAA  
TATTTCTTCGGCTGGCTCATGAGCTGGGACTGCTGGTTATCCTGAGGCCCGGGCCCTACATCTGTGCAGAGTGG  
GAAATGGGAGGATTACCTGCTTGGCTGCTAGAGAAAGAGTCTATTCTTCTCCGCTCCTCCGACCCAGATTACCTG  
GCAGCTGTGGACAAGTGGTTGGGAGTCCTTCTGCCCAAGATGAAGCCTCTCCTCTATCAGAATGGAGGGCCAGTT  
ATAACAGTGCAGGTTGAAAATGAATATGGCAGCTACTTTGCCTGTGATTTTGACTACCTGCGCTTCTG CAGAAG  
CGCTTTCGCCACCATCTGGGGGATGATGTGGTTCTGTTTACCAGTATGGAGCACATAAAACATTCTGAAATGT  
GGGGCCCTGCAGGGCCTCTACACCACGGTGGACTTTGGAACAGGCAGCAACATCACAGATGCTTTCCTAAGCCAG  
AGGAAGTGTGAGCCCAAAGGACCCCTTGATCAATTCTGAATTCTATACTGGCTGGCTAGATCACTGGGGCCAACT  
CACTCCACAATCAAGACCGAAGCAGTGGCTTCTCCTCTATGATATACTTGCCCGTGGGGCGAGTGTGAACCTTG  
TACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAATGGGGCCAACTCACCTATGCAGCACAGCCACCCAGC  
TACGACTATGATGCCCCACTGAGTGAGGCTGGGGACCTCACTGAGAAGTATTTTGCTCTGCGAAACATCATCCAG  
AAGTTTGAAAAAGTACCAGAAGGTCTATCCCTCCATCTACACCAAAGTTTG CATATGGAAAGGTCACTTTGGAA  
AAGTTAAAGACAGTGGGAGCAGCTCTGGACATTCTGTGTCCCTCTGGGCCCATCAAAGCCTTTATCCCTTGACA  
TTTATCCAGGTGAAACAGCATTATGGGTTTGTGCTGTACCGGACAACACTTCCTCAAGATTGCAGCAACCCAGCA  
CCTCTCTCTTACCCCTCAATGGAGTCCACGATCGAGCATATGTTGCTGTGGATGGGATCCCCCAGGGAGTCCTT  
GAGCGAAACAATGTGATCACTCTGAACATAACAGGGAAAGCTGGAGCCACTCTGGACCTTCTGGTAGAGAACATG  
GGACGTGTGAACTATGGTGCATATATCAACGATTTTAAGGGTTTGGTTTCTAACCTGACTCTCAGTTCCAATATC  
CTCACGGACTGGACGATCTTTCCACTGGACACTGAGGATGCAGTGCAGCCACCTGGGGGGCTGGGGACACCGI  
GACAGTGGCCACCATGATGAAGCCTGGGCCCACTCACTCAACTACACGCTCCCGGCCCTTTTATATGGGGAAC  
TTCTCCATTCCCAGTGGGATCCCAGACTTGCCCCAGGACACCTTTATCCAGTTTCCTGGATGGACCAAGGGCCAG  
GTCTGGATTAATGGCTTTAACCTTGCCGCTATTGGCCAGCCCGGGGCCCTCAGTTGACCTTGTTTGTGCCCCAG  
CACATCCTGATGACCTCGGCCCAAACACCATCACCGTGTGGAAGTGGAGTGGGCACCCTGCAGCAGTGTGAT  
CCAGAACTATGTGCTGTGACGTTTCGTGGACAGGCCAGTTATTGGCTCATCTGTGACCTACGATCATCCCTCCAAA  
CCTGTTGAAAAAAGACTCATGCCCCACCCCGCAAAAAACAAAGATTTCATGGCTGGACCATGTATGATGATGA  
AAGCCTGTGTCTTTGAGGGATTCTACCTGAACATACTCACAGATCCTCCCTGTATGCCACATTTCACTGATT  
GGAATGTGGAATGGAAAAGGAATTTAGGATGTGCATTTTACCTGAGGTTTCCCTGCATCCCTGCAGTGCCAAA  
GCCCCACCTTCAGGGACCACCTGGAATGTGTGAGGGGCTGACAGCACAGTAACGTGCATACATATCTGCAGGGCT  
GGAATGGAAAGCTTTAAAGGIGGTAGTGATTTTATTTTGAAGAATCATGTTACCTTTTGTAAATAAAATTTG  
CCCGAATTC

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**FIGURE 1090**

MPGFLVRILLLLLVLLLLGPTRGLRNATQRMFEIDYSRDSFLKDGQPFRYISGSIHYSRVPRFYWKDRLLKMKMA  
GLNAIQTYVPWNFHEPWPGQYQFSEDHDVEYFLRLAHELGLLVILRPGPYICAEWEMGGLPWALLEKESILLRSS  
DEPYLAADVWKLVLLPKMKPLLYQNGGPVITVQVENEYGSYFACDFDYLRFLQKRFRHHLGDDVVLF TTDGAHK  
TFLKCGALQGLYTTVDFTGSGNITDAFLSQRKCEPKGPLINSEFYTGWLDHWGQPHSTIKTEAVASSLYDILARG  
ASVNLMYFIGGTNFAYWNGANSFYAAQPTS YDYDAPLSEAGDLTEKYFALRNIIQKFEKVPEGPIPPSTPKFAYG  
KVTLEKLKTVGAALDILCPSGPIKSLYPLTFIQVKQHYGFVLYRTTLPQDCSNPAPLSSPLNGVHDRAYVAVDGI  
PQGVLERNNVITL NITGKAGATDLLVENMGRVNYGAYINDFKGLVSNLTLSSNILDWTIFPLDTEDAVRSHLG  
GWGHRDSGHHDEAWAHNSSNYTLPAFYMGNF SIPSGIPDLPQDTFIQFPGWTKGQVWINGFNLGRYWPARGPQLT  
LFVPPQHILMTSAPNTITVLELEWAPCSSDDPELCAVTFVDRPVIGSSVTYDHP SKPVEKRLMPPPPQKNKDSWLD  
HV

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**FIGURE 1091**

CGCAGGCGGAGCGCAAGTCTGTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCT  
CGTAAGCTGTCCGCGGTCTGTTTGGCCCGAACGGCGGGGAGGCGCTGATCATGGCGACATTTCATCTCGGTGCAG  
CTGAAAAAGACCTCAGAGGTGGACCTGGCCAGCCGCTGGTGAAGTTTCATCCAGCAGACTTACCCAGCGGCGGG  
GAAGAGCAGGCCCCAGTACTGCCGCGCGGGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCCGTCGTCGCTG  
GACAAGCAGGAGGGCGGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATTCCTCA  
TTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTGGAGGCTCT  
GTAAACTGGCTCTTGCAAGCTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAA  
ATTGCAGCAGAACAGAACCTGGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGTAGTGGT  
GCCTTTTTACATATTAAAGAGACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACT  
GTTGGGACCTCAGTCTTATTATGCTGGCACAGGCTCAAGAAGTATTTTTTTTAAAGCCACAAGAGATAAAATG  
AAAGATGCCATCATAGCTAAATTGGCTAATCAGGCTGCAGATTATTTGGTGATGCTTTCAAACAGTGTCAATAC  
AAAGATACTCTCCCCAAGGAGGTGTTCCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTAC  
CATCAGTCTATCCTGGCAAACAGCAGAAGAAATTTGGAGAAGAAATTGCAAGGTTACAGCATGCAGCAGAAGCTG  
ATTAAACAGTGGCATCTCGCTATGATGAATATGTTAATGTGAAGGATTTTCTGACAAAATCAATCGTGCCCTT  
GCTGCAGCAAAGAAGGATAATGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGC  
AAAGCCACACTTGTGAAATCTACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATG  
GTTCCCGTGTGAGTACAGCAGTCTTGGCTGCCTATAATCAGAGGAAAGCCGATTGGTTAACAGATCAATTGCT  
CAGATGAGAGAAGCCACCCTTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTG  
TCTGGAGACACTGTACCTCAGTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTT  
GATCAGTTGATTAAAGAAGTGCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAAGTTGTG  
GATGAAGAAGAAGCAACCGATAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAA  
CTGTATAAGCCTTTAAGAGCAGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAA  
GTGAAAGAATGTTACCAGTCTCATCGTGACACCATCGTGCTTTTGTTGAAGCCAGAGCCTGAGCTGAATGCTGCC  
ATCCCTTCTGCTAATCCAGCAAAGACCATGCAGGGCAGTGAGGTTGTAATGTCTTAAATCCTTATTGTCAAAT  
CTTGATGAAGTAAAGAAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTGACATGACAAGCAAG  
TTTTTGACAGCCCTGGCTCAAGATGGTGTGATAAATGAAGAAGCTCTTCTGTTACTGAACTAGATCGAGTCTAT  
GGAGGTCTTACAACATAAGTCCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTAGGTCTCACAT  
CAGGAATTTTCAAAAATGAAACAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTTGAAGAATTTAGCTACT  
GCATATGACAACCTTTGTTGAACCTGTAGCTAATTTGAAGGAAGGCACAAAGTTTACAATGAGTTGACTGAAATC  
CTGGTCAGGTTCCAGAAACAAATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAACCTCTTAAAGGAC  
TTGCAACAAAGCATTGCCAGAGAACCTAGTGCTCCTTCAATTCCTACACCTGCGTATCAGTCCCTACCAGCAGGA  
GGACATGCACCAACTCCTCCAATCCAGCGCCAAGAACCATGCCGCTACTAAGCCCCAGCCCCAGCCGAGGCT  
CCACCACCTGTGCTTCCAGCAAATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCG  
CCAGCTCCATCACAACGCCTGGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCCTATCCCACCTATCCAGGA  
TATCCTGGGTATTGCCAAATGCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATAT  
CCACCAGTGTATCACCAGAGTCTTGACAGGCTCCATACCCGGGACCCAGCAGCCTTCATACCCCTTCCCTCAG  
CCCCACAGCAGTCTTACTATCCACAGCAGTAAATATGTCTGCTCAGCAGCTCAGCTGATTCAGATCAGAGGGAAA  
GAAATACCAACCCTGCAATAAGTGTACTAACTCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGC  
AGTGTATAATTTCTGTCTACAGCTAGAAGCTGTGCCCCAGTTCCACATTGATTACACATGTGAGATTGCTGCT  
GTTGCAGTATAAACTAGGTATAATAGGATTTGAAATGCATTACAGTTTCATAAAAAATGAAAATGAGAAATTA  
AACCTGCAAGTGAAACATTTGAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAG  
ATGGTTTAAAGTATGGATACTAGAGAAAATTAAGTTTTCTTCTTTGGTTTATTGATTGGTTTAAATTTCCATT  
ATGCTATTTTGCATAATCAAGGCACGTAAATCTTATAATTTTAAATAAATTACTTAAGAAC

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**FIGURE 1092**

MATFISVQLKKTSEVDLAKPLVKFIQQTYP SGGEEQAQYCRAAEELSKLRRAAVGRPLDKHEGALETLLRYYDQI  
CSIEPKFPFSENQICLTFTWKDAFDKGS LFGGSVKLALASLGYEKSCVLFNCAALASQIAAEQNLDNDEGLKIAA  
KHYQFASGAFLHIKETVLSALSREPTVDISPDTVGTL SLIMLAQAQEVFFLKATRDKMKDAIIAKLANQAADYFG  
DAFKQCQYKDTLPKEVFPVLAAKHCIMQANA EYHQSI LAKQKKFGEEIARLQHAAELIKTVASRYDEYVNVKDF  
SDKINRALAAAKKDNDFIYHDRV PDLKDLDP I GKATLVKSTPVNVPISQKFTDLFEKMPVPSVQQSLAAYNQKA  
DLVNRSIAQMREATTLANGVLASLNLPA AIEDVSGDTV PQSILTKSRSVIEQGGIQTVDQLIKELPELLQRNREI  
LDESLRLLDEEEATDNDLR AKFKERWQRTPSNELYKPLRAEGTNFRTVLDKAVQADGQVKECYQSHRDTIVLLCK  
PEPELNAAIP SANPAKTMQGSEVVNLKSLLSNLDEVKKEREGLENDLKS VNFDMTSKFLTAL AQDGVINEEALS  
VTELD R VYGG LTTKVQESLKKQEGLLKNIQVSHQEF SKMKQSNNEANLREEVLKNLATAYDNFVELVANLKEGTK  
FYNELTEILVRFQNKCSDIVFARKTERDELLKDLQ QSIAREPSAPSIPTPAYQSSPAGGHAPTPTPAPRTMPPT  
KPQPPARPPPPVLPANRAP SATAPSPVGAGTAAPAPSQT PGSAPPPQAQGPYPYTPGYPGYCQMPMPMGYNFYA  
YGQYNMPYPPVYHQSPGQAPYPGPQQPSYFPFPQQSYYPQQ

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**FIGURE 1093A**

TTGGCCCGTGCGTGGGGCTGGGGTGGAGGGCGGGACAGAGGGGCTGGGCCAGGCAAAGCTTCTGTGCTGCTGC  
TGCGGAGGCCGAGGACAGGACGTGGGCTGGGCCGGGCAGTGCCGGACTCGGAGGAGCAGGAGGCGAGGTCCGCCG  
GAGCTCTGAACCCCGCTGCTCTGCCGCGGGTGACCCCGCGCCCGGCCGCTCCGACCCGTGGCTGTTCCGAG  
ACGATTGGTGGGGCGCGCGCGGGCGGGCGGGCTGTTGGGGTGGGGAGACGCGCGGCGAGGACGAGCGAG  
GTCAGCGAGTTTGAGGGAGGACCGCGAGCCGCTGCCGCCGTCAATGTCCGAAGACTCGAGCGCCCTGCCCTGGTCC  
ATCAACAGGGACGATTACGAGCTGCAGGAGGTGATCGGGAGTGGAGCAACTGCTGTAGTCCAAGCAGCTTATTGT  
GCCCCAAAAAGGAGAAAGTGGCAATCAAACGGATAAACCTTGAGAAATGTCAAAGTACGATGGATGAACCTTG  
AAAGAAATTCAAGCCATGAGTCAATGCCATCATCTAATATTGTATCTTACTACACATCTTTTGTGGTAAAGAT  
GAGCTGTGGCTTGTCATGAAGCTGCTAAGTGGAGGTTCTGTTCTGGATATTATTAAGCACATTGTGGCAAAAGGG  
GAACACAAAAGTGGAGTCTAGATGAATCTACCATTGCTACGATACTCCGAGAAGTACTGGAAGGCTGGAATAT  
CTGCATAAAAATGGACAGATCCACAGAGATGTGAAAGCTGGAAACATTCTTCTGGAGAAGATGGCTCAGTACAG  
ATTGCAGACTTTGGGGTTAGTGCTTTTTTAGCAACTGGTGGTGATATTACCGAAATAAAGTGAGAAAGACCTTT  
GTTGGCACCCCTTGTGGATGGCACCTGAAGTTATGGAACAGGTCCGTGGTTATGATTTCAAAGCTGATATTTGG  
AGTTTTGGAATTACAGCAATTGAATTGGCTACAGGGGCGGCTCCTTATCATAAAATATCCACCAATGAAGGTTTTA  
ATGCTGACACTGCAGAACGATCCTCCTTCTTTGAAACTGGTGTTCAGATAAAGAAATGCTGAAAAAATATGGA  
AAATCATTTAGAAAAATGATTTTCAATTGTGCCCTCAAAAAGATCCAGAAAAAGACCAACAGCAGCAGAACTATTA  
AGGCACAAATTTTTCCAGAAAGCAAAGAATAAAGAATTTCTCAAGAAAAACATTGCAGAGAGCACCACCTATT  
TCTGAAAGAGCAAAAAGGTTCCGAGAGTACCAGGTTCCAGTGGGCGTCTTCATAAGACAGAGGATGGAGGCTGG  
GAGTGGAGTGATGATGAATTTGATGAAGAAAGTGAAGGAAAGCAGCAATTTCACTCAAGTCTCTCTCCACCCACC  
GTGAAAGATCAATATCAAAATCTGAGCTCTTTCAACAACATGATCCTGTGGGTACTTTGCTCCAAGTTCCAGAA  
CAGATCTCTGCTCATCTACCTCAGCCAGCTGGGCAGATTGCTACACAGCCAACCTCAAGTCTCTCTCCACCCACC  
GCAGAGCCAGCAAAAACAGCTCAGGCTTTGTCTCAGGATCAGGTTCAACAAGAAACCAAGATCCCAATCAGTCTA  
GTACTAAGATTAAAGGAATCCAAAAAAGAACTAAATGATATTGCAATTTGAAATTTACTCTGGGAGAGATACAGCA  
GAGGGTGTCTCTCAGGAACCTATTCTGCTGGCCTGGTCGACGGAAGGGATTTAGTAATAGTGGCAGCTAATTTG  
CAGAAAATTGTGAAGAACCTCAGTCAAATCGATCTGTCACTTTCAAAGTGGCATCTGGTGTGCAAGGCTCAGAT  
ATTCCTGATGATGGTAAACTGATAGGATTTGCCAGCTCAGCATCAGCTAAACCACAACCCCTGGAAGAGGCGGCC  
TAAGGAGATTCCACACATGCGTATCTCTGTTGCTTCTATTGGCCTAAACCCACTACTGCCAAAGAACCAGCAAC  
AAACCTCCCGGCTAGGAGCTTTAGAAGTCTTTATGTTCTTCTTCCCTGCCATCATTCTCTTTTCCACAGGGAAAGA  
AAAGTTGGATCACTAGTGGCCAGCATCCCCAGAGTTCCGTTAGTAACTTACTTCATATGTCCCCTGTCTTCTC  
CATCTGAGAAGTGGCCCATGTGCTTCAAGGCCAGGAGGAGATCTGTGAGCTCATTCTTGCTTACTCCAATGA  
TGGCCCAGGTGGAAGTAGCAGCTGTATCGGGCTTCTCATCCTGCTTCCCCACACCTGCCAGGATATGG  
ACATCTTGGGATATCTCTTTACCACTGAAGTAGAATTGATTGTTTCACTGAGGCCAGAGAATTTAATTTAATGT  
TTTTTCTTTGTACCTGATGTGAATCTAGCAACCTTTGTTAGGAAAAAGCACAGCCTCAGATGGAGGCAGCCTAA  
ACTGTGTTCTTGTGTTTGTTCATGGTGTCTTAAGCGTTTTGCTGAAGCTGCTCTCAGGCACCCCTTCTTCATTG  
CTCTCTCCAGAAAGGTTGCTAGCCTTAACCTCAGCTGGTGCAAAACATCTGACTGTAGCCGAACCTCAGCCATC  
AGATCCTTCAAAGTGAACCTTTGGATTGTTTTTACAGACAACATCGAGTAATGGCTTGTAAATGTGAATTTTGGC  
AGAGGTGGTTTTTGAACAGGAAATCATAATTCATATCATTGGAGAAGTATTTATTTTCAAATATCAAATTGAAG  
AAAACTCAATCTCCCATGAAAATCAGTTCGCCTGGCCTCCAAGTCGTGAGGAAATGGGTATGCAAGGCTGAGA  
TTTCTACAGCAATAAAGGAGACACACACTGGGCCAGAGAGGCTGCCTTCTGCCTGCTCTCCTGCACTGACCCTT  
TGGAGGGGGTCTCTGTGTGCTGAAGCTAACTCAAGATGGAAGTGAACCACATGTGCCGTGACCTTTAGGTTTT  
ATGAGTAGACAGTGTTTCAATTTGATTTTCTACAGAAATAATATAAATTATTCTTTAGGTTTTAAAAAGAGCACTCA  
TAATGCAATATGTGAATAATCAGTGAGGTTGATTTTTCTTTTTTCTACCCTTTCATAGTCTTTGTCTAACTGCT  
AGTAACCCTACCGAGTTTTATATATGAGTGGGATACTCAATCTGGCCTTAAAAAGATACACAAAGATGGGCTGTG  
GGTCCCTGGAAGGGGAGAGGTTGCCCTTTACAGAACTACTCGAGCCCTTCCAGCACTGTTGGTCTGATGAACA  
AGGTTGTTTTTACCTTATTTTCTTGGAACATATCTGAAAACCTTCCCCACAAATAACTTGTACACCTTTTGT  
TCATTCTGAGTCTTTAGTTTTTAGTCATGGGCTTTCTTCACTGCTCTAGGTGCAAGGCATGTTGGGAAAGAGAT  
GGATGTTGGGGAGGAAGAGAGAGATGGATTTCAGTTGGGAGTTAGGAGGAGAGTAGGTGAGATGATCAGACACC  
GGAGTTCAACGTCCACAGCAGTCTTGGTAAAAGGAGGGAGCCTGCTGAGCCAGGAGGGAGAAAGAAGATTGACCA

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**FIGURE 1093B**

GCTTGCTAGAAAAATACTTAGCTTTTCTTTTTCTTTTTTGTGGAGGGGGGACGGAGAGGAACAAGGATGGGGAG  
GTAGGAATGAGGTATAGAAAAGAGATAGCATCTTCTTTGGCACAAGAATAGTGGCTTACCGCTTACCTTAGAGTT  
TTGTTTTTTTTTTTTCAAACCCATCAAAATCTACTTATTTATGAATCCAAGGGGTGGCAGCATCACTCTGTTCTA  
GCATTCTTTGTGGAGATGGTCTGGTGCCTAGCTGGGAGTGAGCAGCAGCCCATCCCCTGTTCACTTTCTCTAGCC  
CATCATTACCTGTGAAGTGCAGTGGGGCAGTCATGGCAAATAGAATTGGGCTGGGGTTTCTCCTTCTTTTCAGTT  
CATTGTTTGCCCTGCTAGGAATTAGAAGACAGACACCATGTCCCAGGACAGTGTACTTCTTCTGCATGATGTGT  
GGTAGACTCCCTTTGCTGGCTTGTGCAGTGATACTGAGAAAATACATGAACAGAACTGCCCAGGTGGAACAGCA  
CGTAACCTAGTGAGTGACTGTACTCCTTTCTAGGAATGCTGATTCAGAGTGCACCTCTTTGACTAGGTCCCAGGA  
TCCCCTTGTCCTGGAGTAGGGACTAACTATAGCACAAAGTAATATGTGCCAATGCTATTTGTGAAATGTTGGT  
CTTTCTAAACGACTAAAGGATTTGTTGGGTTTTTGCTTAAGTTTTGAACCAAATCCTAGAGCCAGCTGATAATAT  
TTAATAATCTGGAGGAGAGAATAATGATGTACCAATAAGTGGAGATTCTCCTTATGATGTATGCTAGGTTATGG  
AAGATGTAAAATATTCAACTTTTCTCCTTTTTTGGACTTTGTATTTTACTGCATGTTTTCTTCATTTTAAAT  
CAATAAAGAGTAAATTGTC

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**FIGURE 1094**

MSEDSSALPWSINRDDYELQEVI GSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMD ELLKEIQAMSQCCHHPNI  
VSYYTSFVVKDELWLVMKLLSGGSVLDIIKHIVAKGEHKSGVLD ESTATILREVLEGLEYLHKNGQIHRDVKAG  
NILLGEDGSVQIADFGVSAFLATGGDITRNKVRKTFVGT PCWMAPEVMEQVRGYDFKADIWSFGITAI ELATGAA  
PYHKYPPMKVLM LTLQNDPPSLETGVQDK EMLKKYGKSFRKMISLCLQKDPEKRPTAAELLRHKFFQKAKNKEFL  
QEKTLQRAPT I SERAKKVRVP GSSGR LHKTEDGGWEWSDEFDEESEEGKAAISQLRSPRVKESISNSELFPTT  
DPVGTLLQVPEQISAHLPQAPAGQIATQPTQVSLPPTAEPAKTAQALSSGSGSQETKIPISLVLRRLRNSKKELNDI  
RFEFTPGRDTAEGVSQELISAGLVDGRDLVIVAANLQKIVEEPQSNRSVTFKLASGVEGSDIPDDGKLIGFAQLS  
IS



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**FIGURE 1095**

ATGCGACCCGACCGCGCTGAGGCTCCAGGACCGCCCCGCAATGCTGTCAGGAGGTCCCGGCGCGGGGTCTGCGGCC  
CCGGTCTCCTCCACATCCTCCCTTCCCTGGCTGCTCTCAACATGCGAGTGCGGCGCGCCCTGTCTCTGTTCTTG  
AACGTGCGGACACAGGTGGCGGCCGACTGGACCGCGCTGGCGGAGGAGATGGACTTTGAGTACTTGGAGATCCGG  
CAACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTGGACGCTTGGCAGGGACGCCCTGGCGCCTCTGTAGGC  
CGACTGCTCGAGCTGCTTACCAAGCTGGGCCGCGACGACGTGCTGCTGGAGCTGGGACCCAGCATTGAGGAGGAT  
TGCCAAAAGTATATCTTGAAGCAGCAGCAGGAGGAGGCTGAGAAGCCTTTACAGGTGGCCGCTGTAGACAGCAGT  
GTCCACGGACAGCAGAGCTGGCGGGCATCACCACACTTGATGACCCCTGGGGCATATGCCTGAGCGTTTCGAT  
GCCTTCATCTGCTATTGCCCCAGCGACATCCAGTTTGTGTCAGGAGATGATCCGGCAACTGGAACAGACAACTAT  
CGACTGAAGTTGTGTGTGTCTGACCGCATGTCTGCTGGCACCTGTGTCTGGTCTATTGCTAGTGAGCTCATC  
GAAAAGAGGTGCCGCGCGATGGTGGTGGTGTCTCTGATGATTACCTGCAGAGCAAGGAATGTGACTTCCAGACC  
AAATTTGCACTCAGCCTCTCTCCAGGTGCCCATCAGAAGCGACTGATCCCATCAAGTACAAGGCAATGAAGAAA  
GAGTTCCCCAGCATCCTGAGGTTTCACTGTCTGCGACTACACCAACCCCTGCACCAATCTTGGTTCTGGACT  
CGCCTTGCCAAGGCCTTGTCCCTGCCCTGAAGACTGTTCTGAGGCCCTGGGTGTGTGTGTATCTGTCTGCCTGTC  
CATGTACTTCTGCCCTGCCTCCTCCTTTTCGTTGTAGGAGGAATCTGTGCTCTACTTACCTCTCAATTCCTGGAGA  
TGCCAACTTCACAGACACGTCTGCAGCAGCTGGACATCACAATTCATGTCTGCATGGAACCACTGGCTGTGAGT  
GGCATGTCCACTTGTGATTATCAGCCAGGACACTATAGAACAGGACCAGCTGAGACTAAGAAGGACCAGCAGA  
GCCAGCTCAGCTCTGAGCCATTACACATCTTACCCTCAGTTTCTCCTCACTTGAGGAGTGGGATGGGGAGAACAG  
AGAGTAGCTGTGTTTGAATCCCTGTAGGAAATGGTGAAGCATAGCTCTGGGTCCTTGGGGGAGACCAGGCTTGG  
CTGCGGGAGAGCTGGCTGTGTGCTGGACTACATGCTGGCCACTGCTGTGACCACGACACTGCTGGGGCAGCTTCTT  
CCACAGTGATGCCTACTGATGCTTCACTGCTCTGCACACCGCCCATTCACCTCCTCCTTCCCCACAGGGCAGG  
TGGGGAAGCAGTTTGGCCCAGCCCAAGGAGACCCCATCTTGAGCCTTATTTCTAATGGGTCCACCTCTCATCTG  
CATCTTTCACACCTCCCAGCTTCTGCCCCAACCCTTCAGCAGTGACAAGTCCCCAAGAGACTCGCCTGAGCAGCTTG  
GGCTGCTTTTTCATTTCCACCTGTGAGGATGCCTGTGGTCTGCTCTCAGCTCCACCTGGCATGAGAAGGGATCCT  
GGCCTCTGGCATATTTCATCAAGTATGAGTTCTGGGGATGAGTCACTGTAATGATGTGAGCAGGGAGCCTTCTCTC  
CTGGGCCACCTGCAGAGAGCTTTCCACCAACTTTGTACCTTGATTGCCTTACAAAGTTATTTGTTTACAAACAG  
CGACCATATAAAAGCCTCCTGCCCCAAAGCTTGTGGGCACATGGGCACATACAGACTCACATACAGACACACACA  
TATATGTACAGACATGTAATCTCACACACACAGGCACCAGCATACACACGTTTTTCTAGGTACAGCTCCAGGAA  
CAGCTAGGTGGGAAAGTCCCATCACTGAGGGAGCCTAACCATGTCCCTGAACAAAATTGGGCACCTCATCTATT  
CTTTCTCTTGTGTCCCTACTCATTGAAACCAACTCTGGAAGGACCCAAATGTACCAGTATTTATACCTCTAAT  
GAAGCACAGAGAGAGGAAGAGAGCTGCTTAACTCACACAACAATGAAGTGCAGACACAGCTGTTCTCTCCCTCT  
CTCCTTCCCAGAGCAATTTATACTTTACCCTCAGGCTGTCTCTGGGGAGAAGGTGCCATGGTCTTAGGTGTCTG  
TGCCCCAGGACAGACCCTAGGACCCTAAATCCAATAGAAAATGCATATCTTTGCTCCACTTTTCAGCCAGGCTGGA  
GCAAGGTACCTTTTCTTAGGATCTTGGGAGGGAATGGATGCCCTCTCTGCATGATCTTGTGAGGCATTTAGCT  
GCCATGCACCTGTCCCCCTTAATACTGGGCATTTTAAAGCCATCTCAAGAGGCATCTTCTACATGTTTGTACG  
CATTAAATAATTTCAAAGATATCTGAGAAAAGCCGATATTGGCATTCTTCTATATCTGGAATATATCTTGC  
ATCCTGAGTTTATAATAATAATAATATTCTACCTTGGAATAAAAAAAAAAAAAA

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**FIGURE 1096**

MAAGGPGAGSAAPVSTSSLPLAALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFEYLEIRQLETQADPTGRLL  
DAWQGRPGASVGRLLLELLTKLGRDDVLELGPSIEEDCQKYILKQQQEEAEKPLQVAADVSSVPRTAELAGITTL  
DDPLGHMPERFDAFICYCPSDIQFVQEMIRQLEQTNRYRLKLCVSDRDVLPGTCVWSIASELIEKRCRRMVVVSD  
DYLQSKECDFQTKFALSLSPGAHQKRLIPIKYKAMKKEFPSILRFITVCDYTNPCTKSWFWTRLAKALSLP

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**FIGURE 1097**

ATGTGGTTCTGCGCGTGTGCGGACGGCTGTCTGTAACTCCGCGGTCAAGTCCCGGACTGGTGGCTGGTCTGCAG  
GGTTGACCTGCGCAATGCAGAGGCTGCAGGTAGTGTGGGCCACCTGAGGGGTCCGGCCGATTCCGGCTGGATGC  
CGCAGGCCCGCCTTGCCTGAGCGGTGCCCCGACGGCCTCGGCCCGCGGACGTGGTGGTGGTGCACGGCGGGCGCA  
CGGCCATCTGCCGGGCGGGCCGCGCGGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATGACCG  
CGGTTCTCAAGGACGTGAATCTGAGGCCGGAACAGCTGGGGGACATCTGTGTGCGAAATGTGCTGCAGCCTGGGG  
CCGGGGCAATCATGGCCCCGAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCCTTTGTCCACTGTCAATA  
GACAGTGTTCGTGCGGGCTACAGGCAGTGGCCAGCATAGCAGGTGGCATCAGAAATGGGTCTTATGACATTGGCA  
TGGCCTGTGGGGTGGAGTCCATGTCCCTGGCTGACAGAGGGAACCTTGGAAATATTACTTCGCGCTTGATGGAGA  
AGGAGAAGGCCAGAGATTGCCGTATTCCTATGGGGATAACCTCTGAGAATGTGGCTGAGCGGTTTGGCATTTCAC  
GGGAGAAGCAGGATACCTTTGCCCTGGCTTCCAGCAGAAGGCAGCAAGAGCCCAGAGCAAGGGCTGTTTCCAAG  
CTGAGATTGTGCCTGTGACCAACACGGTCCATGATGACAAGGGCACCAAGAGGAGCATCACTGTGACCCAGGATG  
AGGGTATCCGCCCCAGCACCACCATGGAGGGCCTGGCCAACTGAAGCCTGCCTTCAAGAAAGATGGTTCTACCA  
CAGCTGGAAGTCTAGCCAGGTGAGTGATGGGGCAGCTGCCATCCTGCTGGCCCGGAGGTCCAAGGCAGAAGAGT  
TGGGCCTTCCCATCCTTGGGGTCTGAGGTCTTATGCAGTGGTTGGGGTCCACCTGACATCATGGGCATTGGAC  
CTGCCTATGCCATCCCAGTAGCTTTGCAAAAAGCAGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATG  
AGGCCTTTGCAAGCCAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTGGGGG  
GTGCAGTGGCCTTAGGGCACCCACTGGGCTGCACTGGGGCACGACAGGTCAACGCTGCTCAATGAGCTGAAGC  
GCCGTGGGAAGAGGGCATAACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCCGCTGCCGTCTTGAAT  
ACCCTGGGAAGTGAAGTGGAGGTCCCAGGCTGGAGGCGCTACGCAGACAGTCTGTGCTCTAGCAGCAAGGCAGTA  
ACACCACAAAAGCAAAACCACATGGGAAAACTCAGCACTGGTGGTGGTGGCAGTGGACAGATCAAGGCACCTCAA  
CTCATTGGAAGTGTGAACACTGATGACATGGTATAGGAGTGGGTGGGGTGTGAGCCACCCATCAGACCTCT  
TTAGCTGTGCAAGATAAAAGCAGCCTGGGTCAACCCAGGCCACAAGGCCATGGTTAATTCTTAAGGCAAGGCAAAT  
CCATGGATGAGAAGTGCAATGGGCATAGTAAAAGTGCATGAATTT

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**FIGURE 1098**

MQRLQVVLGHLRGPADSGWMPQAAPCLSGAPQASAADV VVVHGRRTAICRAGRGGFKDTPDELLSAVMTAVLKD  
VNLRPEQLGDICVGNVLQPGAGAIMARIAQFLSDIPETVPLSTVNRQCSSGLQAVASIAGGIRNGSYDIGMACGV  
ESMSLADRGNPGNITSRLMEKEKARDCLIPMGITSENV AERFGISREKQDTFALASQQKAARAQSKGCFQAEIVP  
VTTTVHDDKGTKRSITVTQDEGIRPSTTMEGLAKLKP AFKKDGSTTAGNSSQVSDGAAAILLARRSKAEELGLPI  
LGVLRSYAVVGVPDIMGIGPAYAIPVALQKAGLTVSDVDIFEINEAFASQAAYCVEKLRLPPEKVNPLGGAVAL  
GHPLGCTGARQVITLLNELKRRGKRAYGVVSMCIGTGMGAAAVFEYPGN

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**FIGURE 1099**

GTTCCTCCGGGAGCCCAACACCGTTCCCGCGCGGCCACGATGATCCCTCCGAGCAGCCCCCGCGAGGACGGCGTG  
GACGGGCTGCCCAAGGAGGCGGTGGGCGCCGAGCAACCGCCCTCTCCTGCATCCACCAGCAGCCAGGAATCCAAG  
CTCCAGAACTAAAACGATCACTTTCTTTCAAGACCAAGAGTTTACGGAGCAAAAGTGCTGACAACCTCTCCAG  
CGAACCAACAGCGAAGACATGAACTGCAAGCACACATGGTGGCTGAGATCAGCCCCAGCTCCAGCCCACTCCCT  
GCTCCAGGAAGCCTGACGTCCACCCGCCAGGGCTGGTCTGCATCCAGGTGGCAAGGCTCATGCCTTTCAGGAA  
TACATCTTCAAGAAGCCCACTTTCTGTGATGTCTGCAACCACATGATAGTGGGAACAAATGCTAAGCATGGACTG  
CGCTGCAAAGCCTGTAAGATGAGCATCCACCACAAGTGCACAGATGGCCTGGCACCCAGCGGTGCATGGGCAAG  
CTGCCAAAGGGGTTTCGGCGTTACTACAGCTCCCCCTTGCTCATTTCATGAACAGTTTGGCTGCATTAAAGAAGTT  
ATGCCCATTGCCTGTGGCAATAAGGTGGACCCTGTCTACGAGACCCTCCGCTTCGGCACCTCCCTGGCCAGAGG  
ACAAAGAAGGGCAGCTCCGGCAGTGGCTCTGACTCACCTCAGACAACCTCTACTTCAGATCTTGTGGAGGTTCTCT  
GAGGAAGCCAATGGGCCAGGAGGCGGTATGACCTAAGGAAACGCAGCAACAGCGTGTTCATATCCAGAAAAT  
GGCACTGATGATTTCAGAGATCCAGCGAAGAACATAAACCACAGGGATCTCTTTCCAAAGACCCATTACAGATG  
AACACCTATGTTGCCTTGTACAAATTTGTACCACAGGAGAATGAAGATTTGGAATGAGGCCAGGAGACATAATT  
ACTCTTTTAGAGGATTCCAATGAAGACTGGTGGAAAGGGAAAATTCAAGACAGAATTGGCTTCTTTCCAGCCAAC  
TTTGTTTCAGAGACTACAACAAATGAGAAGATTTTATAGTGTGTTAGAACCTTCATTGGGTGTAAGGAACAGGGG  
CAGATAACACTGAAAGAGAATCAGATCTGCGTGAGTTCTGAAGAAGAACAAAGATGGTTTTATCAGAGTCTCAGT  
GGAAAAAAGAAAGGCCTCATCCCCCTTGATGTACTAGAAAACATCTGATTGCTGGCTCCTCCTCCGTTTGCAGTA  
GGCAAGCTCTGCTGCGATGCCTCTGCCTCATCTCACACTGCGTCAACCCAAAGGAGCTGCCGCACTGACCCAGCC  
CCCCAGGAAACAGTGAGACAAGAATCAAGTATCTGAGACTGTGGAGTAATAGCCACAAAACAGAGGGCCCACTGC  
ACAGCATATCCAGGCTGCCACAGGTGGGGACGAGGCTGAGAGAGTCAGCAGGCAGAGCCAGATGCCATGCTTGGC  
AGCAGCAGTAGGACTATAAACCACAGCTGTCCCCCAGGATCCCCTCCTTCTCTGTCTGTGTGGTGTAAGTTAAC  
ACACTGGAGTGTGCTCCAGTTTGCAGGGTAGCCAGTGCAGGTTTCAGATCCATGTAGCTAAGTATTATCTCTGCT  
TCCAGACCTATGTCAACAGTACCAATCAGTCAGTGTCTCATCATTTTCAGGCCCAAGCAATCTCTGTGCAAAGCA  
TCAGAAAGACCTGCTTCCCAGCCCCCAGCATTCCAGTGTCTTCCAGGCTCCTCTCTTTGTGATTGTGCTGTCCA  
GAGTGTCCAGCTTGTCTTTCTTTCTTTCAGTCTCTGAGTACATCTGGTGGTGTGCATTAGATGTGAGGGCTA  
TGTTGACATGGCATCACCTCCAAAGACCTGACCTGCCTAAAGACTGATGACAGGCCATCCTTCTGCTGTTCTAG  
GTACTGGCCTGGGTGACAGAGCAGGACATGAGACATAGATACAGTGGGGAGGAGAAGTGGGGAAAGGTGGAGCAG  
AGAGTTCTTACTTATTGAAGATTATACAGCCCTTTCGGTTATGAAGTCCCTGCTTGAAGGCAATGGACCTGGGGA  
AGAGACTATCACAAAAGTCTCCATTTTCATTTTACATCCTCTCTATTGGAGGCAGCACITTTCCCTCATGCTGT  
CCTATAGGACTCCACTTTGAAGGTTGTGCCTACGTTGCAGGGAACATAGGAACATGGAGGGGAACCAACAACAGCA  
TCTTAGAAGAAATGTAGCCAAATTGGAGTCCATTCTTCTTTAGGGCAGTATATGAAATCCTAGCAGATGTAAAT  
GGAAAAGAATCCTAATGCTTCTTCTTTCAGAAAGTAGAGGAACATAGGGGCCCAATTAGCATCATCTAGGGGAATC  
TCTATTACTCTGTACTTATACTAATGTTTACAAGAATGCAATATATACTGTGATGCCTTCTACTCAAGCCTCCTAG  
CATTCAAACTTCCATCCTATTAGTCATTAAACGTGGTTAACTTCAATTACAATCACCTTGGAAATCAATGTCAGT  
TTGATTTATTTTGTACAGAGCAATAAAATCATTAGAACAATGGTTTTTAAAGACTTAAGTGGATGCATCCTAT  
GCATGTAAGCATTATTTCCCAAACCAAGCATCATTATCTCCATTTATTTCTTTTGTTCCTGCTCAGTGTGAAG  
TTGGGAACAGAGGGGATGGCTGCTGGTTTACAGAAGTTTGGATGCCTTACTCTTATCTTAAAGCCAGCATCC  
AGAATTTCCCTCCTCTCTGATGCCACATGCAAACAGGTGTACGATGTCAAGATGGATTCTTTGAGAGCCAGGG  
TAGATCATATGACTGCCCTTCTGTAAAATTGGATGCCTAGTACAAATGCTCTTTGCCTCTAATTCAGTATTCCAT  
TTAATAAAAAACAATACAGTGGCTGGAAAGGAGCATCAG

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**FIGURE 1100**

MIPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNFFQRTNSEDMKLQAHM  
VAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFQEYIFKKPTFCDCVNHMIVGTNAKHGLRCKACKMSIHHKC  
TDGLAPQRCMGKLPKGFRYYSSPLLIHEQFGCIKEVMPACGNKVDPVYETLRFGTSLAQRTKKGSSGSGSDSP  
HRTSTSDLVEVP EEANGPGGGYDLRKRSNSVFTYPENGTD DFRDPAKNINHQGSLSKDPLQMNTYVALYKFVPQE  
NEDLEMRPGDIITLLED SNEDWWKGKIQDRIGFFPANFVQRLQONEKIFRCVRTFIGCKEQGQITLKENQICVSS  
EEEQDGFIRVLSGKKKGLIPLDVLENI

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**FIGURE 1101**

GCCGCGGGCTTCGTTTGTGAGGAAGGGGGCCTAGGCCCGGGCCTGCGGTGGTGGGGGTGCTGCGCGCCGGGGGT  
CGCTCCTGCTGTGTCTTCCGCTCCAGCTTCGCCCACTTCCCCTTGCCAGCGGGGTGGGCGGGAGAAGACCTGCC  
GGAGCCATGGAGGACGAAGTGGTCCGCTTTGCCAAGAAGATGGACAAGATGGTGCAGAAGAAGAAGCGGGCTGGA  
GCATTGGATTTGCTAAAGGAGCTTAAGAATATTCCTATGACCCTGGAATTACTGCAGTCCACAAGAATCGGAATG  
TCAGTTAATGCTATTCGCAAGCAGAGTACAGATGAGGAAGTTACATCTTTGGCAAAGTCTCTCATCAAATCCTGG  
AAAAAATTATTAGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAG  
AACAGCCCTGAGGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGA  
GATACTTATGTTTCACTCTTCTCGGGCACCAAGCACTTCTGATTCTGTGCAGTTGAAGTGTAGGGAGATGCTT  
GCTGCAGCTCTTCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAA  
GAAGCTATATATCAAGAAATAAGGAATACAGACATGAAATACAAAATAGAGTACGAAGTAGGATATCAAATCTT  
AAAGATGCAAAAAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCTCTGACTTATTTGCTAGAATG  
ACAGCAGAGGAAATGGCTAGTGATGAGCTGAAAGAGATGTGGAAAACTTGACCAAAGAAGCCATCAGAGAGCAT  
CAGATGGCCAAGACTGGTGGGACCCAGACTGACTTGTTCACATGTGGCAAATGTAAAAAGAAGAATTGCACTTAC  
ACACAGGTACAAACCCGTAGTGCTGATGAACCAAGTGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGG  
AAGTTCTGTTGAGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAACTAGCTTTAAAC  
TAGGCCAAGCAACTAGTTTTCTGCAAATCAAATTTTAAAGCAACTTGAGTTAGACTTTGTTTTGACCTAACA  
TCCCTTCCTTAAATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAATAATTGTATGGTACCTGTTTCAA  
AACATATTTTTTCTGTTTTTATAAGTAAGTTGATATTAATTAACTCTTGCCAATATTTCTTCTTTCTTAAAGGA  
AAATACACCTTAACTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATCTGTTACTCTCTGTTATTAT  
ACATAAATGAAAATACTTTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATA  
TTTTAGGTTTACCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAAATGTACATAATTTTGAGG  
TAGCTTATGAATTTGATTTTAATTATTATGTTCAAGCTTGAATATTAGATATTATTTTGCATCTGTAACATA  
CCGTGATCATCATCTCTGTAATTTCTTGATCATGATATTACTTGTCTTAATAGATTTTGGAAACAAGACTT  
TATTGAGATCAGTTTGGTTTTCTGTAAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAACA  
CTGTTGTAGTTTAGAAGGCTTTTCATAAATCCCTCATAGGCAAAGATGAGAACTTCCCCTATTTTTTTCCCCT  
CTTAGGAAGACATACTGGAAAGAAAATGTTTAGCATCTTAGTGTAGTATAGCTATTGTAAACAGTTTCATGACTAG  
ATTTTGATTGGAAATCTATACTGACCAAGGATTAATCTTAAGGACTGTATAATTCATTAAAGCGGTGGTCTTTC  
CATGTGGAGACTGATAGAAAATAATTTGTCCCAAGTCTTATTGCTGACTTTTCTGTCAATGAGTGAGATTGT  
TGAACAACTGAATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTA  
AAGTGTGTACCAATTTTTCTGTTTGGAGTAAGACAAAATTTGTTTGACATAGGTTCCCTAGGTACACTTGCTC  
TAGCATACTTTAAAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTACGGCACCCGTAGAA  
AGACCTCAGTACATGCTTTGCACTCTCCTTTGCTCCCTTTTCCAATTTCTTATTGCATATCATTGTTGTGAAT  
ACAGAAAGCAGCATTTTAAATGTCCATGTTAAGAATTGGCCCACTGGTACCGACTCACCTCTATTTGTGAGTT  
CATAGTTGAAGATTTTGTTTTATTTCAAAAACAAAGTACATTTTGAAATAATGTTTCAGAATAAAATAATCTCA  
CTTTAAATTAAGTGATCCATTTTAAATTTGTAATCAATAAAGTTTTTTTTGTGTTAAACAT

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**FIGURE 1102**

MEDEVVRFakkMDKMVQKKNAAGALDLLKELKNIPMTLELLQSTRIGMSVNAIRKQSTDEEVTSLAKSLIKSWKK  
LLDGPSTEKDLDEKKKEPAITSONSPEAREESTSSGNVSNRKDETNRDITYVSSFPRAPSTSDSVQLKCREMLAA  
ALRTGDDYIAIGADEEELGSQIEEAIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFARMTA  
EEMASDELKEMWKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPVTTFVVCNECGNRWKF  
C



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**FIGURE 1103**

AGGTCCACCGCTCCTACCAGCAGCCTGACCCAGGATGGCTCTACTCCCCAGCCTTCAATCCCTGGACCTGGGTT  
TGGAATTAGGAGACTTCCGTCGAGGGTCAATTGTGCGGGATCCTGGCCATTCATACAAAAATCTCAGACTGGCA  
AAAGAGAGGGGGACCCCTCGAGCAGAGGTCAGATATCACAAGGGACCCGGTTTTTCCACCCCGCCCTCATTCCC  
AGCGTGGGGTCTCAGATGAGTGGGAAAACCTCAAATATGGATCAGAAATCATGCAAGTTCGGACTCTGGCCTTAG  
GAGAAAACCTCTTAAACGGAGATGGAATGTCACGAGGGATCCAGCCACCCCATCCACTCATTGACTGGATGAAGTT  
TTGCGATGGGAAAATCCAGGTCAGGAGTTACGGACGACCTGCACCGCCCGGAGCTCCTTCTGGGTCCGGAGTTTG  
GGAAAAGTGGGGTTAGGGGTTAAAGGTCACGGAAGAACTTCCCCACTCCCCCGCCTCTTTCGTCCGCGGGCCG  
GTTCAAGAGGTATTCGGAACAGGGGAGGAGAGCGGGCGCCATCGTACCTGAGCAGGAGCCAGCGCCTGCTGGAG  
CTGCTGCTGCTCCTCGCTGATCTTTTGCTTCAGTTTTCTGAACATGGCGCAGCGTACGTACGGTCTGAGTGTCA  
ACGAAACCTGAAGGGCGAGAGCCCGGGGAGTCCCGGCCGCGACGGCTACGGCGACTTCTTTACACCAGGGACAGC  
GGGGGCCGGGCTCGCCGTCTCCTCCTTGAGGCTGTGGGCAAGTCCGGACACTCGTCTGAGGGTGTCCGGCTCG  
CCGCCGCCGCTCTCTTTCTTCCGGGTGCCACTGGCTGGCCTCGGCCCCCATCCAGCCCCGGGAGCCGCGCGG  
CGACGACAACGGCAGCAGGTGAACTGTGCGCAAGGGCGCTTGCGCGGCTACGTGGAGCTCACAGAGGCTAACT  
ACGGAGCACCGGATGGGACAAGCACAATGTCGGGTCCCGCATGCGCGCTCGGCCGGTTCGCTTCCGAACCTCGCT  
GCACTGGAGGACGCAAGGTTCCGTCCTGCCTGATTTTCGTTGCGTGGGAGACCGCCGTCCGGGCTCAGAACC  
GCGTGGGCTAGTCTGAACACTACCCTGACTCTCACCTGGGCTTTGGCCCTGCGAAATCAGACGGGGAGAGTGTG  
CTTCTATCGATGGCAGCAGGGCCGACGGGCCACCGCAAAGAACAAGGATGAGCGTCAAGGATGGGAGAAGGG  
GAGATCCAGAGAACCTGACGCGGGCCCTAATTGATAGTGTTCTTTTCTTTAGTAGCTGTAGCTAGGATTCTGTGT  
CTTCGGTGCCAGAGGGGCCGCTTCCCTTCCCTGAACTCTTCCAGCGTCGGGAAGTCCCTGATACCAGGCGCCAG  
GGGTCCAAATGTTTTATGCCAATACTGTAAACCTCAAGTGTTTGGACACCTGCTTTATTCTTTCTTACC  
ATCGTGTATTTACGAATTCATTCAAAAACCTTTATCAGGCCTTGGAGATGTTAAAAGAATTTACAGCCTAGTGG  
AAGACACAGATTCTTAATTAGTCCAAATTTACTCCTAACACCTGCAATCATCTACAAGATCTTAATGTTTATGT  
GCCTCATTATCTAAAACCTGAACTTTGGCTGCCTGTGAATCCTCAGGTCCATTTCAGCAACCCACTTTTGCAT  
GCTGTACCTTTGATATCATCTGAAACTGCTTACATTGTCTCCGGTATCAGAATCTAACAGTATATGCTGATCTCC  
ACGTTCTAGCAAATTTTGTTTACCAGCAATAATAGGAGCAACCTGCTCTCGAGAGTCCATATTCTGATCCCTAAA  
TGTATTAGAGCCACAGTGGGGCTGGAACACTGCCTTAACACCTGGGCTAAGTCCCTCTTATATCTCGTAGTGAAC  
ACCTTATGTATGTAAGGTGTCCCCAGCCCCGGGCCACAAACGGGTACCAGCCCATGGCCTGTTAGGAACCGGGC  
TACACAGCAAGAAGTGAATCTCTGGCAAGCCAGGGAAGCTTAATCTGTATTTACAGCTGCTCCCATGGTTTACA  
TTATCGTCTGAGCTCCACCTCCTGTGATCAGCTGTGGCATGAGATTCTCATAGGAGCTGGAACACTGTGTAAC  
TAGGCTAGAGAGGGATCTAGGTTATGCTCCTTATGAGAATCTAATGCCTGATGATCTGTCACTGTCTCCCATCAC  
CCCCAGATGGGACCATCTAGTTGAGGAAAATAAGCTCAGGGCTCCACCGATTCTACATTATGGTGAGTTGTGT  
AATTGTTTCATTATATATTACAATGCAATAATAAGGGAATAAGGGGCACAATAAATAT

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**FIGURE 1104**

MALLPSLQSLDLGLELGDFRRGSIVRDPGHSIQNLTTCKREGDPSSRGQISQGTRVFPPRPHSQRGVSEWENLK  
YGSEIMQVRTLALGENS

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**FIGURE 1105**

CTCTTCCGGTTCTAGGTGCTTCGGGAGCCGCGGCTTAAGGTGTAGACATGGCGAAGTCCAAGAACCACACCACAC  
ACAACCAGTCCCGAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAGATACGAATCTCTTAAGGGGG  
TGGACCCCAAGTTCCTGAGGAACATGCACTTTGCCAAGAAGCACAACAAGAAGGGCCTAAAGAAGATGCAGGCCA  
ACAATGCCAAGGCCATGAGTGCACGTGCCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTAAAGCCCAAGA  
TCCCAAAGGGTGTGTCAGCCGCAAGCTCGATCGACTTGCCTACATTGCCCATCCCAAGCTTGGGAAGCGTGCTCGTG  
CCCGTATTGCCAAGGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGATCAAACCAAGGCCAGGCTGCAG  
CTCCACCTTCAGTTCCAGCTCAGGCTCCCAAAGGTGCCCAGGCCCTACAAAGGCTTCAGAGTAGATATCTCTGC  
CAACATGAGGACAGAAGGACTGGTGTGACCCCTACCCCGCCCTGGGCTACCATCTGCATGGGGCTGGTCCTC  
CTGTGCTATTTGTACAAATAAACCTGAGGCAGG

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**FIGURE 1106**

ATTGCCACATGGTCCACATTGCATGCAAGATTGCTGAGCTGAAGGAAAAGATTGATTGCCGTTCTGGTAAAAAGC  
CAGAAGATTGCCCTAAATTCTTGAAGTCTGATGATGCTGCCATCATTGACATGGTTCCTGGCAAGCCCATGTGTG  
TTGAGAGCTTCTCAGAACTGTTTGTTCATTGGCCATTAAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAA  
TGCATCATAAAACCTTCAGATGGAAAGGAGAATGTTTGTGGACCACTTGGTTTTCTTTTTGCATCTGGCAGT  
TTTAAGTTATTAGTTTTTAAATCAGTACTTTTTAATGGAA

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**FIGURE 1107**

U  
MVHIACKIAELKEKIDCRSGKKPEDCPKFLKSDDAAIIDMVPKPMCVESFSELFVSIGHLSLVVKDWLMITMHH  
KTRWKGEFCFVDHFGFLFCIWQF

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**FIGURE 1108**

TGCCTGTCTTTTCCGTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTTAAAGGGA  
AACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGG  
AACCACCTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTA  
TATCATAAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCAATTGTTGCCATTGAAAACCTGC  
TGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCAC  
TCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCT  
TGTGGTTACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCT  
GTGTAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGG  
TTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTCCCGTGAACACCCATGGGAGGT  
CATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGT  
GACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTGCAGA  
CTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCTATTACAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGC  
CACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGC  
TGTTCTTGCATAGGCTCTTAAGCAGCATGGAAAAATGTTGATGGAAAATAACATCAGTTTCT

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**FIGURE 1109**

MSGALDVLQMKEEDVLKFLLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAREPRLLVVTDPRAHQPLTEASYVNLPTIALCNT  
DSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE  
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTAAQATEWVGATTDWS

**FIGURE 1110**

[illegible]



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**FIGURE 1111**

MVFRRFVEVGRVAYVSFGPHAGKLVAIVDVIDQNRALVDGPCTQVRRQAMPFKCMQLTDFILKFPNSAHQKYVRQ  
AWQKADINTKWAATRWAKKIEARERKAKMTDFDRFKVMKAKKMRNRIKNEVKKLQKAALLKASPKKAPGKGTGTA  
AAAAAAAAAKVPAKKITAASKKAPAQKVPAQKATGQKAAPAPKAQKGQKAPAQKAPAPKASGKKA

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**FIGURE 1112**

GACTCCTAGGGGCTTGCAGACTAGTGGGAGAGAAAGAACATCGCAGCAGCCAGGCAGAACCAGGACAGGTGAGGT  
GCAGGCTGGCTTTTCCTCTCGCAGCGCGGTGTGGAGTCTGTCTGCCTCAGGGCTTTTCGGAGCCTGGATCCTCA  
AGGAACAAGTAGACCTGGCCGCGGGAGTGGGGAGGGAAGGGGTGTCTATTGGGCAACAGGGCGGGGCAAAGCCC  
TGAATAAAGGGGCGCAGGGCAGGCGCAAGTGGCAGAGCCTTCGTTTGCCAAGTCGCCTCCAGACCGCAGACATGA  
AACTTGTCTTCCTCGTCTGTCTGTTCCTCGGGGCCCTCGGACTGTGTCTGGCTGGCCGTAGGAGGAGTGTTCAGT  
GGTGCGCCGTATCCCAACCCGAGGCCACAAAATGCTTCCAATGGCAAAGGAATATGAGAAAAGTGCCTGGCCCTC  
CTGTCTAGCTGCATAAAGAGAGACTCCCCATCCAGTGTATCCAGGCCATTGCGGAAAACAGGGCCGATGCTGTGA  
CCCTTGATGGTGGTTTCATATACGAGGCAGGCCTGGCCCCCTACAAACTGCGACCTGTAGCGGCGGAAGTCTACG  
GGACCGAAAGACAGCCACGAACCTCACTATTATGCCGTGGCTGTGGTGAAGAAGGGCGGCAGCTTTCAGCTGAACG  
AACTGCAAGGTCTGAAGTCTGCCACACAGGCCTTCGCAGGACCGCTGGATGGAATGTCCCTATAGGGACACTTC  
GTCCATTCTTGAATTGGACGGGTCCACCTGAGCCCATTTAGGCAGCTGTGGCCAGGTTCTTCTCAGCCAGCTGTG  
TTCCCGGTGCAGATAAAGGACAGTTCGCCAACCTGTGTGCGCTGTGTGCGGGGACAGGGGAAAAACAAATGTGCC  
TCTCTCCAGGAACCGTACTTTCAGCTACTCTGGTGCCTTCAAGTGTCTGAGAGACGGGGCTGGAGACGTGGCTT  
TTATCAGAGAGAGCACAGTGTTCAGGACCTGTGACAGGAGGCTGAAAGGGACGAGTATGAGTTACTCTGCCAG  
ACAACACTCGGAAGCCAGTGGACAAGTTCAAAGACTGCCATCTGGCCCGGGTCCCTTCTCATGCCGTGTGGCAC  
GAAGTGTGAATGGCAAGGAGGATGCCATCTGGAATCTTCTCGCCAGGCACAGGAAAAGTTTGAAAGGACAAGT  
CACCAGAAATTCAGCTCTTTGGCTCCCTAGTGGGCAGAAAGATCTGCTGTTCAAGGACTCTGCCATTGGGTTTT  
CGAGGGTGCCCCGAGGATAGATTCTGGGCTGTACCTTGGCTCCGGCTACTTCACTGCCATCCAGAACTTGAGGA  
AAAGTGAGGAGGAAGTGGCTGCCCGCGTGCAGCGGTCTGTGGTGTGCGGTGGGCGAGCAGGAGCTGCGCAAGT  
GTAACCAAGTGGAGTGGCTTGAGCGAAGGCAGCGTGACCTGTCTCGGCTCCACCACAGAGGACTGCATCGCCC  
TGGTGTCTGAAAGGAGAAGCTGATGCCATGAGTTTGGATGGAGGATATGTGTACACTGCAGGCAAAATGTGGTTTGG  
TGCTGTCTTGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTAACTGTGTGGATAGACCTGTGG  
AAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGAACTCTGTGAAAGGCAAGAAGT  
CCTGCCACACCGCGTGGACAGGACTGCAGGCTGGAATATCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCT  
GCAAATTTGATGAATATTTTCAGTCAAAGCTGTGCCCCGGGTCTGACCCGAGATCTAATCTCTGTGCTCTGTGTA  
TTGGCGACGAGCAGGGTGAGAATAAGTGCCTGCCAACAGCAACGAGAGATACTACGGCTACACTGGGGCTTTCC  
GGTGCTGGCTGAGAATGCTGGAGACGTTGCATTTGTGAAAGATGTCACTGTCTTGCAGAACACTGATGGAATA  
ACAATGACGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCCTCGATGGCAAACGGAAGCCTG  
TGACTGAGGCTAGAAGCTGCCATCTTGCCATGGCCCCGAATCATGCCGTGGTGTCTCGGATGGATAAGGTGGAAC  
GCCTGAAACAGGTGTTGCTCCACCAACAGGCTAAATTTGGGAGAAATGGATCTGACTGCCCCGACAAGTTTTGCT  
TATTCAGTCTGAAACCAAAAACCTTCTGTTCAATGACAACACTGAGTGTCTGGCCAGACTCCATGGCAAAAACAA  
CATATGAAAAATATTTGGGACCACAGTATGTCGAGGCATTACTAATCTGAAAAAGTGCTCAACCTCCCCCTCC  
TGGAAGCCTGTGAATTCCTCAGGAAGTAAACCGAAGAAGATGGCCCAGCTCCCCAAGAAAGCCTCAGCCATTCA  
CTGCCCCCAGCTCTTCTCCCCAGGTGTGTTGGGGCCTTGGCCTCCCCCTGCTGAAGGTGGGGATTGCCCATCCATC  
TGCTTACAATTCCTGTCTGCTCTTAGCAAGAAGTAAATGAGAAATTTTGTGATATTC

**FIGURE 1113**

GCTTCTAAACCAACCTACCCCTCCTTCCCATTTTCTGTGGTCCAACCTACCCTCGGCGATGCCAGGCTTGGCGGGGG  
ACCGCCTTGGCCTCTCCCGTTTCCTTTAGGCTGCCGCCGCTGCCTGCCGCCATGGCAGAGTTGGGCCTAAATGAGCA  
CCATCAAAATGAAGTTATTAATTATATGCGTTTTGCTCGTTCAAAGAGAGGCTTGAGACTCAAACTGTAGATTCT  
CTGCTTCCAAGACCTCAAGGAGAGCAGGCTGGTGGAGGACACCTTCACCATAGATGAAGTCTCTGAAGTCTCTCAA  
TGGATTACAAGCTGTGGTTCATAGTGAGGTGGAATCTGAGCTCATCAACACTGCCTATACCAATGTGTTACTTCT  
GCGACAGCTGTTTGCACAAGCTGAGAAGTGGTATCTTAAGCTACAGACAGACATCTCTGAACCTGAAAACCGAGA  
ATTATTAGAACAAGTTGCAGAATTGAAAAAGCAGAGATTACATCTTCAAACAAAAAGCCCATCTTAGATGTAC  
AAAGCCAAAACCTTGCTCCACTTAATGAAGGTGGAACAGCAGAATCCTAAACAAGGAAATTTTAAGACTTCAAGA  
AGAGAATGAGAAATTGAAGTCAAGGTTGAAGACCATTGAAATACAGGCTACAAATGCACTGGATGAAAAGTCAAA  
ACTAGAAAAAGCACTGCAAGATTTACAGCTTGATCAAGGAAATCAAAGGATTTTATAAAGGCCCAAGACTTAAG  
TAACTTAGAAAAACTGTGCTGCCTTAAAGAGTGAGTTTCAAGACACTTAATGACAAGACAGAAAACCGAGA  
GTCAGTGGAGGAGAATCTGGCGACAGCCAAGCACGATCTACTCAGGGTTCAGGAGCAGCTGCACATGGCTGAAAA  
GGAATTAGAAAAGAAATTTAGCAAAACAGCAGCTTATCGAAACATGAAAGAGATTCTTACCAAGAAGAATGACCA  
AATCAAAGATCTGAGGAAAAGACTGGCACAATATGAACCTGAAGATTAAACTGAAGATTTCTCTGGAAGCTAC  
CACATGCAACATACAAGCAGTCTCACCTCAGGCATGTATTTTGAAGCATTGTTGTCATATCCCCTCTCCTTAT  
TTTTCTAATATTTAGACTTTGAATATTTAGAACTAGAGTTTCTATTTTCAGCTAGTTGAAAAACAGAGAAAACTA  
GTGATTCTGTCTGGTTCATCCACACACCTCTCTACTGAGTGCTCCAGAGTCTTAGCTCACATGCAGTGAATTC  
TTTACAGCAAAGAAGAGATTTTTTAGAGTGGGAAGAAGAGGCTTATCCTTCTGCATTAGTATAAAGAGTCTGTATT  
TTAATAAATGTTAAATAAGCTAACATGTTTGTACTTTATGCATTCCCATGGGTAAAAATAAATAATAGCATTG  
TTAAAGATAGTTATTACCAAAAAAGAGAGTTATTACAAATAAATATGTCTCTTTATTTTTAAAAATGAAATCTT  
AATTCATTTACTCTATTTGATGATAAACTATAAATTCATTGAAAATGTGAATTCTATTATGGGTAGCCTTTTTAC  
CAATTATAAGGAAAAATTTACAGCAGTGAACATGAACATTCACTTAGCTTCTCAGTCTCTCCATCTTAAAGATCA  
TTTATCAGAGGAGGTTTACAGATTTTTTGCAGCATAACTTTTCATGAGTCTGTATTACTAATGGATAAGTCAAATC  
CATCCGTCACCTTCTACAGTTTAAAAAGTATCTGGACTCAGAATAAATGTAATATTTATACTTGTTCAGAAATG  
TATTTTACATTTTATGTTCAATAAGAACACTTTTTAAAGACGTATATTCAACATAAATCAGCTATCAGACTTC  
AGATTAGACTTTATTTATGTGGGTCTATAATAATTGATTTTTCAAGAGGTTTTTACTATATTTGTATTGGCCTGG  
TTTTCTCAGACGATTTTTGGACAAATCATTAGAACTGGGCATCATATCCACAGTTATGTAAGGCAGTGATATACT  
ATAAGGATAAACAAAGTCAAGTCCATAAAGCAATAATCCCTCAGAAGGAAAGTCCTTACTTTTCATATTAATA  
TTTAGTAATTTTTCTGCTTCTAAAAGTGAGAGTATCACACCCTAAATGAACACTGTCTACTAAGAGACATCATT  
CCATTTCCACAAATGAAGATTTTTATTCCAAGAAACGAGTTTACTGATTGGAGCATAGGGCTTGTGTTATTTTTA  
TTCAAGCTTTTATGTAATAGCCTTGAATTTATTATTTTTCTTATAGGCTTTTTGTTAAATAGTGAAGGAACAAAT  
GTTAAAGGGTAAGATAATTTCCCTGCAAAAGGACACAGAAGGCAGTCTTAAGAAGATGAATGGATGAGAGAAGGG  
AGAGAATAAATGCAATAACGAGCCAGCATTACTATGTATTTTCTCCTCACCTGTCTCTCCATATTTAGGTCAC  
TTACCAGTTTTCTGTGCCCTTTTGGAGCTTTTGTGAGGGCTTCATTCTCACCTGTATTTCTTTAGCCCTAAAT  
GACACTCTCTCCAAAAATCCATTCCATTGTCTGTGGACCAAGATGTCTATGTAATTCAGAAGCAGAATCTTGG  
CTAAAGGGCTAGTGTGGCCTTCAGAAACCATTCAATTATTTTCTCCCTACACCTTTGTGAGTTTGAACCCAGTGA  
GGAAAAAAGGTATGTTGATAAGAAACCTATATTGCTAGGTAGAATTTGTAATGTTTCTTGGTAGCAGTTTTGA  
AATATTCTGTACAGTACGTTTCTATTGTTTAAATAATAAATTCAAAAATATTTCTAAACCTTAAACCAACTATG  
CCAAGCATTAAGATAAACAAATATGATGTTCTTTGACGTAAATCAACGTGATGATTCTTTCACATGTAACACAT  
TTTAGTGTCTGTGTTTGTCAATTTTGTGTTGTTGTTGTTGTTGTTGTTTATTACTCTATACCCTTTAGCAAAATAC  
AGTTTTAAATTTTTATTGTTTTTAGTAGTTTCCCACTTTAAGACTTATCTAATTTAACTGAGAAAGAAAGCCTT  
TTTCATATATATATATATTGGATTTCTAAGGATGGTGGTTTGGCCTTGATTAGACTTTTGATGTGCTAAGCCAG  
ACAGGCAGTCTGTACATTGATGGCCATCACAATGCAGCTTTGGTTTAAATTAATTCAGGCCTGCTGCTGAGTTAT  
GCACAGACTTTTTGTTGACCAAAATAAATATAAAGGGTTTTCTCTGTTTGACATTTGTGTTTCAATTTTTCTCT  
TTATGTATTACATTTTAACTATATTAATAAATGTTTAAATGATAATTGCTTATGTCTTATAAACTCAGCAT  
AAGAAAAAT

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**FIGURE 1114**

MAELGLNEHHQNEVINYMRFARSKRGLRLKTVDSQDLKESRLVEDTFTIDEVSEVLNGLQAVVHSEVESELIN  
TAYTNVLLLRQLFAQAEKWYLKLTDISLENRELLEQVAEFKAEITSSNKKPILDVTKPKLAPLNEGGAELL  
NKEILRLQEENEKLSRLKTIEIQATNALDEKSKLEKALQDLQDQGNQKDFIKAQDLSNLENTVAALKSEFQKT  
LNDKTENQKSLEENLATAKHDLLRVQEQQLHMAEKELEKKFQOTAAYRNMKEILTKKNDQIKDLRKRLAQYEPED

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**FIGURE 1115**

AGATGACGTGCGGCTCGTGGGGCAGCTCGGCAGCATGGCGTCCGTGACGCTGAGCGAGGCGGAGAAGGTGTACAT  
CGTG CATGGCGTCCAGGAAGACCTCCGTGTGGATGGCCGTGGCTGTGAGGACTACCGATGTGTGCGAAGTGGAAC  
TGATGTGGTGTCCAACACTAGTGGGTCCGCCAGGGTCAAGCTGGGTACACACAGACATCTTGGTGGGAGTGAAAGC  
AGAAATGGGGACGCCGAAGCTGGAGAAACCAATGAAGGCTACTTGGAGTTCTTTGTTGACTGTTTCAGCCAGTGC  
TACCCCTGAATTGGAAGGTAGAGGAGGTGATGACCTTGGCACCGAGATCGCTAACACCCTCTATCGGATATTTAA  
CAATAAAAGCAGTGTGACTTAAAGACCCTCTGCATTAGTCCTCGGGAGCACTGCTGGGTCTCTATGTGGATGT  
GCTGCTTCTGGAATGTGGTGGAAATTTGTTTGATGCCATTTCATTGCTGTAAAGGCTGCTCTCTTCAATACAAG  
GATACCAAGGGTTCGAGTTTTGGAGGATGAAGAGGGGTGGAAGGACATTGAATTGTCAGATGACCCCTTATGACTG  
CATACGACTAAGTGTGGAGAATGTCCCCTGCATTGTCACTCTGTGCAAGATTGGCTATCGGCATGTGGTGGATGC  
TACTCTTCAGGAGGAGGCTGCTCGCTGCCCAGCTTGCTGGTGTGGTGACCAGCAAGGGAGTTGTGACGTGCAT  
GAGGAAAGTGGGGAAGGGCAGCCTGGACCCAGAGAGCATCTTCGAGATGATGGAGACTGGCAAGCGTGTGGGCAA  
GGTACTGCATGCCTCCTTGCAAGTGTGTGCACAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATT  
CCTGGGATGATTTGCACATCAACTGCTCAACTGTGGATTGTTTTTACTTTTCTTTTAAACCGGTTTCGTATATA  
TTTTTCTTCGCTGTTACGAATTTACAGCAGCATTGTGACATGTAAAATTAAAGGCTATTTTCTGGTCTGGTT

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**FIGURE 1116**

MASVTLSEAEKVYIVHGVQEDLRVDGRGCEDYRCVEVETDVVSNTSGSARVKLGHTDILVGVKAEMGTPKLEKPN  
EGYLEFFVDCSASATPEFEGRGDDLGTETIANTLYRIFNNKSSVDLKTLCISPREHCWVLYVDVLLLECGGNLFD  
AISI AVKAALFNTRIPRVRVLEDEEGSKDIELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLAS  
LLVSVTSKGVVTCMRKVGKGS LDPESIFEMMETGKRVGKVLHASLQSVVHKEESLGPKRQKVGF LG

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**FIGURE 1117**

CACCGTGCCCAAGAGAAAGGCTGAAGGGGATGCTAAAGGAGATAAAGCCAAGGTGAAGGATGAACCACAGAGAAG  
ATCCATGAGGTTTTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCTGCAAAGAAGGG  
AGAGAAGATACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCGAGGAGGGGAATAACCCTGCAGAAAACGGAGA  
TGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGGTGCCAAGTGAAGCATGTGCATTTTTTATAACTG  
TGTACTTTTGATGACTGTACAGCTTGAAATACTATTTTTATCAAGTTTTATAAAAATGCAGAATTTTGTITTTACT  
TTTTTTTTTAAAGCTATGCTATTAGCACACAGAACTTCAGTGTTGTTTTAGGGAGAAGGGGCATATGTCACTA  
ATAGAATGTCCCAAAAGCTGGATTGATGTGGGGAAAACACCTTTCCCTTCTAGCTTTGAGAGACTTCCTCTTGGC  
TCCCAGGAGGAGGGATTCCCTGACTTTGACACAGATGGTCACCTTGGCACAAAAGCCTTGTAGGATGGAAAAACA  
AATTTGTTTTTATGTCCTCTTCTCCCTTTCCATCCTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTT  
GGGACCTGACCCCGATCATTGGTTACCACTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCA  
CCTGTCAAAACAGCGGTGGTTCCATTTCTAGACTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCC  
TGAAACTCAGGGTCGGCTTGTGAAAAGCTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACT  
TTCCCTGTTTCAGAGCATCAGACGAAAACCTTCATTGGGTTTTATAGTGGCTTTCAGATTTTTGGTAGTCAATTGAA  
GAAGGGAGTTTAAATTTGTTGTATACTGTTTCATGATTGCTGCCCATGTCCTGCCTGAAATACCATGATTGTTT  
ATGGAAAGTATCTTTAATAAAGCTGGATACAGTTTGGC

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**FIGURE 1118**

VPKRKAEGDAKGDKAKVKDEPQRRSMRFSAKPAPPKPEPKPKKAPAKKGEKIPKGKKGKADAGEEGNPAENGDA  
KTDQAQKAEGAGGAK



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**FIGURE 1119**

AAGCCTCTCGGTCTGTGGCAGCAGCGTTGGCCCCGGCCCCGGGAGCGGAGAGCGAGGGGAGGCGGAGACGGAGGAA  
GGTCTGAGGAGCAGCTTCAGTCCCCGCCGAGCCGCCACCGCAGGTCGAGGACGGTCGGACTCCCGCGGCGGGAGG  
AGCCTGTTCCCTGAGGGTATTTGAAGTATACCATACACTGTTTTGAAAATCCAGCGTGGACAATGGCTACTCA  
AGCTGATTTGATGGAGTTGGACATGGCCATGGAACCAGACAGAAAAGCGGCTGTAGTCACTGGCAGCAACAGTC  
TTACCTGGACTCTGGAATCCATTCTGGTGCCACTACCACAGCTCCTTCTCTGAGTGGTAAAGGCAATCCTGAGGA  
AGAGGATGTGGATACCTCCCAAGTCCTGTATGAGTGGGAACAGGGATTTTCTCAGTCCTTCACTCAAGAACAAGT  
AGCTGATATTGATGGACAGTATGCAATGACTCGAGCTCAGAGGGTACGAGCTGCTATGTTCCCTGAGACATTAGA  
TGAGGGCATGCAGATCCCATCTACACAGTTTGATGCTGCTCATCCCACTAATGTCCAGCGTTTGGCTGAACCATC  
ACAGATGCTGAAACATGCAGTTGTAACTTGATTAACATCAAGATGATGCAGAACTTGCCACACGTGCAATCCC  
TGAAC TGACAAAAC TGCTAAATGACGAGGACCAGGTGGTGGTTAATAAGGCTGCAGTTATGGTCCATCAGCTTTC  
TAAAAAGGAAGCTTCCAGACACGCTATCATGCGTTCTCCTCAGATGGTGTCTGCTATTGTACGTACCATGCAGAA  
TACAAATGATGTAGAAACAGCTCGTTGTACCGCTGGGACCTTGCCATAACCTTCCCATCATCGTGAGGGCTTACT  
GGCCATCTTTAAGTCTGGAGGCATTCTGCCCTGGTGAAAATGCTTGGTTTACCAGTGGATTCTGTGTTGTTTTA  
TGCCATTACAACCTCTCCACAACCTTTTATTACATCAAGAAGGAGCTAAAATGGCAGTGCCTTTAGCTGGTGGCT  
GCAGAAAATGGTTGCCTTGCTCAACAAAACAAATGTTAAATTCTTGGCTATTACGACAGACTGCCTTCAAATTTT  
AGCTTATGGCAACCAAGAAAGCAAGCTCATCATACTGGCTAGTGGTGGACCCCAAGCTTTAGTAAATATAATGAG  
GACCTATACTTACGAAAACTACTGTGGACCACAAGCAGAGTGCTGAAGGTGCTATCTGTCTGCTCTAGTAATAA  
GCGGGCTATTGTAGAAGCTGGTGGAAATGCAAGCTTTAGGACTTCACCTGACAGATCCAAGTCAACGTCTTGTTC  
GAAC TGCTTTGGACTCTCAGGAATCTTTCAGATGCTGCAACTAAACAGGAAGGGATGGAAGGTCTCCTTGGGAC  
TCTTGTTCAGCTTCTGGGTTTCTGATGATATAAATGTGGTCACTGTGCTGAGCTGGAATTCTTTCAACCTCACTTG  
CAATAATTATAAGAACAAGATGATGGTCTGCCAAGTGGGTGGTATAGAGGCTCTGTGCGTACTGTCTTCGGGC  
TGGTGACAGGGAAGACATCACTGAGCCTGCCATCTGTGCTCTTCGTCTATCTGACCAGCCGACACCAAGAAGAGA  
GATGGCCCAGAATGCAGTTTCGCTTCACTATGGACTACCAAGTGTGGTTAAGCTCTTACACCCACCATCCCACG  
GCCTCTGATAAAGGCTACTGTTGGATTGATTGCAAACTTTGCCCTTTGTCCCGCAAATCATGCACCTTTGCGTGA  
GCAGGGTGCCATTCCACGACTAGTTTCACTTGTCTGCTGTCATCAGGATACCCAGCGCCGTACGTCCATGGG  
TGGGACACAGCAGCAATTTGTGGAGGGGTCCGCATGGAAGAAATAGTTGAAGGTGTACCGGAGCCCTTCACAT  
CCTAGCTCGGGATGTTTACAACCGAATTGTTATCAGAGGACTAAATACCATTCCATTGTTTGTGCTGCTGCTTTA  
TTCTCCCATTTGAAAACATCCAAAGAGTAGCTGCAGGGGTCTCTGTGAACCTTGCTCAGGACAAGGAAGCTGCAGA  
AGCTATTGAAGCTGAGGGAGCCACAGCTCCTCTGACAGAGTTACTTCACTCTAGGAATGAAGGTGTGGCGACATA  
TGCAGCTGCTGTTTTGTTCCGAATGTCTGAGGACAAGCCACAAGATTACAAGAAACGGCTTTTCACTTGTGCTGAC  
CAGCTCTCTCTTCAAGACAGAGCCAATGGCTTGAATGAGACTGCTGATCTTGGACTTGATATTGGTGGCCAGGG  
AGAACCCCTTGATATCGCCAGGATGATCCTAGCTATCGTTCTTTTCACTCTGGTGGATATGGCCAGGATGCCTT  
GGGTATGGACCCCATGATGGAACATGAGATGGGTGGCCACCACCCTGGTGCTGACTATCCAGTTGATGGGCTGCC  
AGATCTGGGGCATGCCCAGGACCTCATGGATGGGTGGCTCCAGGTGACAGCAATCAGCTGGCCTGGTTTGATAC  
TGACCTGTAAATCATCCTTTAGCTGTATTGTCTGAACCTGCAATGTGATTGGCCTGTAGAGTTGTGAGAGGGCT  
CGAGGGGTGGGCTGGTATCTCAGAAAGTGCCTGACACACTAACCAAGCTGAGTTTCTATGGGAACAATTGAAGT  
AAACTTTTTGTTCTGGTCCTTTTTGGTTCGAGGAGTAACAATACAAATGGATTTTGGGAGTGACTCAAGAAGTGAA  
GAATGCACAAGAATGGATCACAAGATGGAATTTATCAAACCTTAGCCTTGCTTGTAAATTTTTTTTTTTTTTTT  
TTTAAGAATATCTGTAATGGTACTGACTTTTGCTTGTGCTTTGAAGTAGCTCTTTTTTTTTTTTTTTTTTTTTT  
CAGTAAGTGTTTTTAAGTCTCTCGTAGTGTAAAGTTATAGTGAATACTGCTACAGCAATTTCTAATTTTTAAGA  
ATTGAGTAATGGTGTAGAACACTAATTCATAACTCTAATTAATTGTAATCTGAATAAAGTGTAACAATTGTG  
TAGCCTTTTTGTATAAAATAGACAAATAGAAAATGGTCCAATTAGTTTCTTTTTTAATATGCTTAAAAATAAGCAG  
GTGGATCTATTTGATGTTTTGATCAAAAACATTTGGGATATGATGGGTAGGGTAAATCAGTAAGAGGTGTTA  
TTTGAACCTTGTTTTGGACAGTTTACCAGTTGCCTTTTATCCCAAGTTGTTGTAACCTGCTGTGATACGATGC  
TTCAAGAGAAAATGCGGTTATAAAAAATGGTTTCAGAATTAACTTTTAATTCATT

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**FIGURE 1120**

GGGACTGCGAGCCAGGGACTCGGGCCCGGGGCGGGAAGAAGTGGGGCAGCGCTTGGCCAGGCCGAAAGGACTTT  
GGGGGTGGGGGCTGGGAGTCCGTGTCTCGAATGAGGGAGGAGAGGTGGAGTTGCCGGGGCTCAGGCCCGGCCTCG  
AGCATGGGCGGATGAGAGGAGTCCGGAGCCGAGGCCTAGGGTCCTTCGGGTGAGGGGAGACGGAGCCAGCGAGGA  
GATGGAGCAGAAGCTTGTGGAGGAGATTCTTCAAGCAATCACTATGTCAACAGACACAGGTGTTCCCTTCCTTC  
ATATGAGGAAGATCAGGGATCAAACTCATTGAAAAGCTAAAGAGGCACCATTTCGTACCCGTTGGAATAGCGGG  
TTTTGCAGCAATTGTTGCATATGGATTATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTCATCTGAT  
CCACATGCGTGTGGCAGCCCAAGGCTTTGTTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGGA  
ATTCTGGGCCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTATTGTTGGAAATAAACTAATTGTTATGGGT  
TTAGATGGTAACATGGCATTGTTGAATATTGGCTTCCTTTCTTGCAGGCTTGATTTGCTTGGTGACCGAATTACTA  
GTGACTAGTTTACTAAGTAGGTCAATCAAGGAAGTCAAGTTAACTTAAACATGTCACCTAAATGCACTTGATGGT  
GTTGAAATGTCCACCTTCTTAAATTTTAAAGATGAACTTAGTTCTAAAGAAGATAACAGGCCAATCCTGAAGGTA  
CTCCCTGTTTGCTGCAGAATGTCAGAT

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**FIGURE 1121**

TGGTGCTGACCAGCCACTTACCCACAGGAGCCACATCCAACCTCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTT  
GCACGCCTGGACACTAACTCACCTAGCATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGCAGAGGTTGTC  
AGTGATGGTGTACCCCTGGTGCTAGCCCTGGTCCCCCACCGGCAGCCCCACTCCTTCATCACCCAGGGTTCCCCA  
GACCTGTTGGTGACTGTGAGTGCCAGTGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGC  
AACTACTTCAGCTTCAGCAAAGACCCCAACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTGGGTG  
CCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCTATTACCGGTGGCCACTGG  
GATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCTGTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTA  
ACCTGCCTTGCACTGGACACCTGTGGCATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGG  
CTCCTGCATCAGGTGTGCCTCGTGGGCAGCTCTGTGGGGCCCCCGTAGCCCAGACCTGCAGCCCATCCGTCCCTC  
AGTGGCCTTCCAGTCCTGTCCTCCTCTAGTC



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**FIGURE 1122B**

GACCGTCAGGTTTACCAGTGTGTGCAATCGCCATGTATTTCAGAGGGAAGTACCTTTGTTACCTACAACCTTAGGAG  
CTAGGCCTCTGCTACAAGCACTTGAAAATGATATTTTTATTTTAAACGTCTCAACAATCTGATATCGGATGTCGT  
TTAACCTGGGCTCGTGGTAGGGCTCCAGCATTCTCCCTCCTTCCCTGGTTTGCCTGTAGGGGTAGACTCGGAAGG  
TGGGTGGGGTGTGCATTTCTGTAGGAGTGATCAGTGCTTGTCTTATTATAAGCCCCCTTCTTTTGTGAATTT  
GAAGTAGCACCAACAAGCCTGGATTGTGAAGGTATTAAGAATCGGTCTGTGGGCTACTGAGTGGGTCCTTAGGAT  
ACTGGCCCAGATTTTGCCACTGGGTATGGCAGATCATTTTCTACCATGGCCTGCTGCTCTTGTAGTGGACTTCCT  
GAGTCCAATCCCACCTCCTGGTGTAGAATTTACACTGCTGCACCTGAGGTCGATGTTTCAAAGTAAGATCAAGCC  
AGTGTTTTGATCTGGGCTCTGAGCACAAGTCAGGAAACACCAACATATTCACACTCTCCCAGTAGGTTCCCTCAGT  
CCGATGGTGAATGGCTATTGTAATGGCTGGTCTGGCTCTTTGGTGTGGAGCCTTTCCAATAGCCCCATGAAA  
AGAAGCATCACCCAAGGATATTGTAATAAGGATGTAACAAGGAGATAGGGTAGACATTGTACTCAGTGGGCCTTG  
GGCCTAGCCCAGCTCTGAGCAGAGGACTGTGGCATTCACTGTCCCTTGAGTGTTCACCTTCTTGATAACACAC  
GGGCCTTCTCTTCTGGATTTCATCAGAGATTACAGCCAGATGGGGCTGAAGACCATCCTCTTGACCACAGAGGT  
GTGACTGTGGGAATTCCTCCAATTTATGGTTTCCCAGAAAATCTTAGTTCCTTTATTTATAGAATGCATGTCT  
TTTGTGTTAAGAAACCAAAGAGAAATAAAGAGAACACTCCTAAT

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## FIGURE 1123A

AGAGAGGGAGGGCGCCACGCACCGGACTGCGGGCCGAGAGCGCGCACGCCGCGCTCCGCCCCCTGCTGCCGCCCCC  
GTCGCCGCCGCCGCCGCCGCCGCGCAGCTTGGGAGGTGCTGCCACCACAGGTACCTGCACATGTTGTTCTTTGTCAG  
TGCTGTCAAGTGTGTGCCAGGGTGATCCATGGTCACTTTCCGGGATGGCAGCAAGGTGACTTCGGCTGAGGATGA  
CCCTGACTGAAAGGCTGCGTGAGAAGATATCTCGGGCCTTCTACAACCATGGGCTCCTCTGTGCATCCTATCCCA  
TCCCCATCATCTCTTTCACAGGGTCTGTGCATCTTAGCCTGTGTGCTACCCACTGCTGAAACTCCCCCTTGCCAGGAA  
CAGGACCTGTGGAATTCACCACCCCTGTGAAGGATTACTCGCCCCACCTGTGGACTCTGACCGCAAACAAGGAG  
AGCCTACTGAGCAGCCTGAGTGGTATGTGGGTGCCCGGTGGCTTATGTCCAGCAGATATTGTGAAGTCTCTCAG  
TGTTTCCCTGGCACAAGAACCTCCTGGCAGTAGATGTATTTCGTTACCTTTGTCCCGGGCATTCCAACCTGGTGG  
AGGAGATCCGGAACCACGTGCTGAGAGACAGCTCTGGGATCAGGAGCTTGGAGGAGTTGTGTCTGCAAGTGACCG  
ACCTGCTGCCAGGCTTAGGAAGCTCAGGAACCTACTCCCTGAGCATGGATGCCTGCTGTGTCTCCCTGGGAACT  
TCTGGCAGAATGACTGGGAACGCTTCCATGCTGATCTGACATCATTGGGACCATCCACCAGCAGAGCCTAAAA  
CCCTGCAGACTTCAGCCACACTCAAAGACTTGTTATTGGTGTTCCTGGGAAGTACAGCGGGGTGAGCCTCTACA  
CCAGGAAGAGGATGGTCTCCTACACCATCACCCCTGGTCTTCCAGCACTACCATGCCAAGTTCCTGGGCAGCCTGC  
GTGCCCCGCTGATGCTTCTGCACCCAGCCCCAACTGCAGCCTTCGGGCGGAGAGCCTGGTCCACGTGCACTTCA  
AGGAGGAGATTGGTGTGCTGAGCTCATCCCCCTTGTGACCACCTACATCATCTTGTTCCTACATCTACTTCT  
CCACGCGGAAGATCGACATGGTCAAGTCCAAGTGGGGGCTGGCCCTGGCTGCCGTGGTCACAGTGTCTAGCTCGC  
TGCTCATGTCTGTGGGACTCTGCACACTCTTCGGCCTGACGCCCCACCTCAATGGCGGCGAGATTTTCCCTTACC  
TTGTGGTGGTTATTGGGTTAGAGAATGTGTTGGTGTCTACCAAGTCTGTGGTCTCAACCCCGGTAGACCTGGAGG  
TGAAGCTGCGGATCGCCCAAGGCCTAAGCAGCGAGAGCTGGTCCATCATGAAGAACATGGCCACGGAGCTGGGCA  
TCATCCTCATCGGCTACTTCACCCTAGTGCCCCCATCCAGGAGTTCTGTCTCTTTGCTGTCTGTGGGGCTGGTGT  
CTGACTTCTTCTTCAGATGCTGTTTTTCAACACTGTCTGTCCATTGACATTGCGCGGATGGAGCTAGCAGACC  
TGAACAAGCGACTGCCCCCTGAGGCCTGCCTGCCCTCAGCCAAGCCAGTGGGACAGCCAACGCGCTACGAGCGGC  
AGCTGGCTGTGAGGCCGTCCACACCCACACCATCACGTTGCAGCCGTCTTCCTTCCGAAACCTGCGGCTCCCCA  
AGAGGCTGCGTGTGTCTACTTCTTGCCCCGACCCGCTGGCACAGCGCCTCATCATGGCTGGCACCGTTGTCT  
GGATTGGCATCCTGGTATACACAGACCCAGCAGGGCTGCGCAACTACCTCGCTGCCAGGTGACGGAACAGAGCC  
CATTGGGTGAGGGAGCCCTGGCTCCCATGCCCGTGCCTAGTGGCATGTGCCCCCAGCCACCCGGACCCCTT  
TCTCCATCTTCCACCTGATGCCCTTAAGCTACCTGAGAACCAGACGTGCGCAGGCGAGTCACTGAGCGTGGAG  
GTCCAGCAGAGGTTGTCATGACAGCCAGTCCCAGAGGTAACCTGGGGGCTGAGGATGAGGAACCTTGGAGGA  
AATTGTCTTCCGCCACTGGCCGACGCTCTTACGCTATTACAACATCACACTGGCCAAGAGGTACATCAGCCTGC  
TGCCCGTCATCCAGTCACGCTCCGCTGAACCCGAGGGAGGCTCTGGAGGGCCGGCACCCCTCAGGACGGCCGCA  
GTGCTTGGCCCCACCGGGGCCATACCTGCTGGGCACTGGGAAGCAGGACCCAAGGGCCAGGTGGGGTGCAGG  
CCCATGGAGACGTACGCTGTACAAGGTGGCGGCGCTGGGCTGGCCACCGGCATCGTCTTGGTGTCTGTCTGC  
TCTGCCTCTACCGGTGCTATGCCCGCGCAACTACGGGACGCTGGGTGGTGGGCCCCGGCGGCGAGGCGCGGGG  
AGCTGCCCTGCGACGACTACGGCTATGCGCCACCCGAGACGGAGATCGTGCCGCTTGTGTGCGCGGCCACCTCA  
TGGACATCGAGTGCCCTGGCCAGCGACGGCATGCTGCTGGTGAGCTGCTGCCCTGGCAGGCCACGTCTGCGTGTGGG  
ACGCGCAGACCGGGGATTGCCTAACGCGCATTCCGCGCCAGGGCAGCGCCGGGACAGTGGCGTGGGCAGCGGGC  
TTGAGGCTCAGGAGAGCTGGGAACGACTTTCAGATGGTGGGAAGGCTGGTCCAGAGGAGCCTGGGGACAGCCCTC  
CCCTGAGACACCGCCCCGGGGCCCTCCGCGCCTTCCCTCTTCCGGGACCAAGCCTGACCTCACCTGCTTAATTG  
ACACCAACTTTTCAGCGCAGCCTCGGTCTCACAGCCCACTCAGCCCGAGCCCCGGCACCGGGCGGTCTGTGGCC  
GCTCTCGGGACTCCCCAGGCTATGACTTCAGCTGCCTGGTGCAGCGGGTGTACCAGGAGGAGGGGCTGGCGGGC  
TCTGCACACCAAGCCCTGCGCCACCCCTGCCTGGGCGGTGCTGTCCAGGCCCCCTGAGGACGAGGGTGGCTCCC  
CCGAGAAAGGCTCCCTTCCCTCGCCTGGGCCCCAGTGGCCGAGGGTTCCATCTGGAGCTTGGAGCTGCAGGGCA  
ACCTCATCGTGGTGGGGCGGAGCAGCGGCCGCTGGAGGTGGGACGCCATTGAAGGGGTGCTGTGCTGCAGCA  
GCGAGGAGGTCTCTCAGGCATTACCGCTCTGGTGTCTTGGACAAAAGGATTGTGGCTGCACGGCTCAACGGTT  
CCCTTGATTTCTTCTCTTGGAGACCCACACTGCCCTCAGCCCCCTGCAGTTTAGAGGGACCCAGGGCGGGGCA  
GTTCCCTGCTCTCCAGTGTACAGCAGCAGACAGTGGCCTGTACCTGACCCACACAGTGCCCTGTGCAC  
ACCAAAAACCCATCACAGCCCTGAAAGCCGCTGCTGGGCGCTTGGTGACTGGGAGCCAAGACCACACACTGAGAG  
TGTTCCGTCTGGAGGACTCGTGTGCTCTTACCCTTCAGGGCCACTCAGGGGCCATCACGACCGTGTACATTG

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**FIGURE 1123B**

ACCAGACCATGGTGCTGGCCAGTGGAGGACAAGATGGGGCCATCTGCCTGTGGGATGTACTGACTGGCAGCCGGG  
TCAGCCATGTGTTTGCTACCGTGGGGATGTACCTCCCTTACCTGTACCACCTCCTGTGTATCAGCAGTGGCC  
TGGATGACCTCATCAGCATCTGGGACCGCAGCACAGGCATCAAGTTCTACTCCATTGAGCAGGACCTGGGCTGTG  
GTGCAAGCTTGGGTGTCTATCTCAGACAACCTGCTGGTGACTGGCGGCCAGGGCTGTGTCTCCTTTTGGGACCTAA  
ACTACGGGGACCTGTTACAGACAGTCTACCTGGGGAAGAACAGTGAGGCCAGCCTGCCCGCCAGATCCTGGTGC  
TGGACAACGCTGCCATTGTCTGCAACTTTGGCAGTGAGCTCAGCCTGGTGTATGTGCCCTCTGTGCTGGAGAAGC  
TGGACTGAGCGCAGGGCCTCCTTGCCCAGGCAGGAGGCTGGGGTGCTGTGTGGGGGCCAATGCACTGAACCTGGA  
CTTGGGGGAAAGAGCCGAGTATCTTCCAGCCGCTGCCTCCTGACTGTAATAATATTAACTTTTTTAAAAAACCA  
TATCATCATCTGTGTCAGGCACTTTGGGA

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**FIGURE 1124**

MTLTERLREKISRIFYNHGLLCASYPIPIILFTGFCILACCYP LLKLPLPGTGPVEFTTPVKDYSPPPVDS DRKQ  
GEPT EQPEWYVGAPVAYVQQIFVKSSVFPWHKNLLAVDVFRSPLSRAFLVEEIRNHVLRDSSGIRSLEELCLQV  
TDLLPGLRKLRLNLLPEHGCLLLSPGNFWQNDWERFHADPDIIGTIHQHEPKTLQTSATLKDLLFGVPGKYSGVSL  
YTRKRMVSYTITLVFQHYHAKFLGSLRRLMMLHPSPNCSLRAESLVHVHFKEEIGVAELIPLVTYIILFAYIY  
FSTRKIDMVKSKWGLALAAVTVLSSLLMSVGLCTLFGLTPTLNGGEIFPYLVVVIGLENVLVLT KSVVSTPVDL  
EVKLRIAQGLSSESWSIMKNMATELGIIILIGYFTLVPAIQEFCLFAVVGLVSDFFLQMLFFTTVLSIDIRME LA  
DLNKRLPPEACLP SAKPVGQPTRYERQLAVRPSTPHITITLQPSFRNLRLPKRLRVVYFLARTLAQRLIMAGTV  
VWIGILVYTDPAGLRNYLAAQVTEQSPILGEGALAMPVPVSGMLPPSHPDPAFSIFPPDAPKLPENQTS PGESPER  
GGPAEVVHDSVPVEVTWGPEDDEELWRKLSFRHWPTLFSYYNITLAKRYISLLPVIPTLRLNPREALEGRHPQDG  
RSAWPPPGPIPAGHWEAGPKGPGGVQAHGDVTLYKVAALGLATGIVLVLLLCLYRVLCPRNYGQLGGGPGRRRR  
GELPCDDYGYAPPETEIVPLVLRGHLMDIECLASDGMLLVSCCLAGHVCVWDAQTGDCLTRIPRPGQRRDSGVGS  
GLEAQESWERLS DGGKAGPEEPGDSPLRHRPRGPPPSLFGDQPDLTCLIDTNFSAQPRSSQFTQPEPRHRAVC  
GRSRDSPGYDF SCLVQRVYQEEGLAAVCTPALRPPSPGPVLSQAPEDEGGSPEKGSPLAWAPSAEGSIWSLELQ  
GNLIVVGRSSGRLEVWDAIEGVLCCSSEEVSSGITALVFLDKRIVAARLNGSLDFFSLEHTALSPLQFRGTPGR  
GSSPASPVYSSSDTVACHLTHTVPCA HQKPITALKAAAGRLVTGSQDHTLRVFRLEDSCCLFTLQGHSGAITTVY  
IDQTMVLASGGQDGAICLWDVLTGSRVSHVFAHRGDVTSLTCTTSCVISSGLDDLSIWDRSTGIKFYSIQQDLG  
CGASLGVISDNLLVTGGQGCVSFWDLNYGDLQT VYLGKNSEAQPARQILVL DNAAIVCNFGSELSLVYVPSVLE  
KLD



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**FIGURE 1125**

GTTCTCTTCGCCCCGGTCCCTGCCGCGCACAGGCCTCGGGGTCGGCGGGAGCACGATCGCGGCCGCTAGGAGACTC  
ATGGCGCTGGCCGCGCGCATCTCTCCGCGCCTGCAGCCGCTGGGTCCCCGCGCTGCTGGGCGACAGGGTCGCTCG  
CGCGGCTTCTCTTCAAGCTGCGCCCCACCCGACCACACCAAGGAAGCCGCGGAGCCGAGTCAGGGATGGCCCCC  
GGCGGGCTGGGGAAGGCGACGGAAGCTTGGTGAACGCTTCTAGGGACCTATTTAAAAGAGTTCCACAGCCCCAAA  
AATCTTCTCAACAGTGTGATTGGAAGAGCCCTCGGCATCTCACATGCAAAAGACAACTAGTCTACGTGCACACA  
AATGGACCGAAGAAAAAGAAAGTCACACTGCACATAAAATGGCCCAAGAGCGTGGAGGTAGAAGGCTATGGCAGC  
AAGAAGATCGATGCTGAGCGGCAGGCTGCAGCTGCAGCCTGCCAGCTGTTCAAGGGTTGGGGTCTGCTAGGTCCC  
CGGAATGAGTTGTTTGACGCAGCCAAATACCGAGTGCTAGCTGATCGCTTTGGCTCCCCCTGCCGACAGCTGGTGG  
CGTCCGGAACCCACCATGCCCCCTACTTCCTGGCGGCAGCTGAATCCAGAGAGTATTTCGACCAGGGGGACCTGGG  
GGCCTATCCCGCTCTTTAGGCCGGGAAGAAGAGGAGGACGAGGAGGAAGAGCTAGAAGAAGGGACCATAGATGTT  
ACCGACTTCTTGTCCATGACCCAGCAGGATTCCCACGCTCCACTCAGGGACTCAAGGGGGAGTTCCTTTGAGATG  
ACAGATGACGACAGTGCCATTAGGGCTCTGACCCAGTTTCCACTTCCCAAGAACCCTTCTGGCCAAGGTGATTGAG  
ATTGCAACGTCATCCTCCACAGCTAAGAACCCTCATGCAGTTCCATACTGTGGGCACCAAGACCAAGCTGTCTACA  
CTCACCTGCTCTGGCCCTGCCCCATGACCTTTGTTGCCAAAGGGCGCCGCAAAGCAGAGGCTGAGAATAAGGCG  
GCAGCCTTGGCCTGCAAGAACTGAAGAGCCTGGGCCTGGTGGACAGGAACAACGAACCGCTTACACACGGTTAC  
GGAGCCGATGGCTGACGTATTTTCATGGCAGTCAAGTCCAATGGCAGCGTCTTCGTCCGGGACTCCTCTCAGGTGC  
ACCCGCTAGCTGTGCTGCTGCTGACCGACGGGGACGTGCACATCCGTGATGACGGGCGCCGGGCCACCATCTCAC  
TGAGCGACAGTGACCTGCTGCGGCTGGAGGGTGACTCGCGTACCGTGCGGCTGCTGAAGGAGCTGCGGCGGGCCC  
TGGGCCCGCATGGTGGAGCGGAGCCTGCGCAGCGAGCTGGCTGCACTTCCCCCAGCGTACAGGAGGAGCAGGGC  
AGCTGCTTGGCGCTACTGGCAGAGCTGCTGCGAGGACCCTGTGGCAGCTTTGATGTGCGCAAGACAGCTGACGACT  
GAGCCCTGCTTCTGCTGGGGCTGTGTACAGAGTGCAATGTTTATTTAAATAAAGTTCTATTTATCCCTTG TG

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**FIGURE 1126**

MAAARRLMALAAGISPRQLGPRAAGRQGRSRGFSSSCAHPDHTKEAAEAESGMAPGGPGEGDGSGLVNASRDLL  
KEFPQPKNLLNSVIGRALGISHAKDKLVYVHTNGPKKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQLFK  
GWLLGPRNELFDAKYRVLADRF'GSPADSWWRPEPTMPPTSWRQLNPESIRPGGPGGLSRSLGREEEDEEEEL  
EEGTIDVTDFLSMTQQDSHAPLRDSRGSSFEMTDDDSAIRALTQFPLPKNLLAKVIQIATSSSTAKNLMQFHTVG  
TKTKLSTLTLLWPCPMTFVAKGRRKAEAENKAAALACKKLKSLGLVDRNNEPLTHGYGADG

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**FIGURE 1127**

CGAAAGGCCGGCCTGGCTGCGACAGCCTGGGTAAGAGGTGTAGGTCGGCTTGGTTTTCTGCTACCCGGAGCTGGG  
CAAGCGGGTGGGAGAACAGCGAAGACAGCGTGAGCCTGGGCCGTTGCCTCGAGGCTCTCGCCCGGCTTCTCTTGC  
CGACCCGCCACGTTTGTGGATTAAATCTTCAGGTGTCGGCGCCCCGCCCGCCGCTGGCCTCGCGGTGTGAGA  
GGGAAGCACCCGTGCCTGTGGCTGGTGGCTGGCGCCTGGAGGGTCCGCACACCCGCCCGCCGCGCCGCTTGCCC  
GCGGCAGCCCGCTCCCTGAACCGCGGAGTCGTGTTGTGTTGACCCGCGGGCGCCGGTGGCGCGCGCGCGAGGC  
CGGTGTGCGCGGGGCGGGGCGGTGCGGGCGGAGGCAGAGGAAGAGGGAGCGGGAGCTCTGCGAGGCCGGCGCCG  
CCATGGAAC TG GCGCCGAGCCCCGCACCGCCGCCGCTGCTCTTCGCCTGCAGCCCCCTCCCGCTCGCAGC  
CCGTCGTGAAGGCGCTATTTGGCGCTTCAGCCGCCGGGGGACTGTGCGCTGTACCAACCTGACCGTCACTATGG  
ACCAGCTGCAGGGTCTGGGCAGTGATTATGAGCAACCACTGGAGGTGAAGAACAACAGTAATCTGCAGAGAATGG  
GCTCCTCCGAGTCAACAGATTCAAGTTTCTGTCTAGATTCTCCTGGGCCATTGGACAGTAAAGAAAACCTTGAAA  
ATCCTATGAGAAGAATACATTCCTACCTCAGAAGCTGTTGGGATGTAGTCCAGCTCTGAAGAGGAGCCATTCTG  
ATTCTCTTGACCATGACATCTTTCAGCTCATCGACCCAGATGAGAACAAAGGAAAATGAAGCCTTTGAGTTAAGA  
AGCCAGTAAGACCTGTATCTCGTGGCTGCCTGCACTCTCATGGACTCCAGGAGGGTAAAGATCTCTTCACACAGA  
GGCAGAACTCTGCCCCAGCTCGGATGCTTTCTCAAATGAAAGAGATAGCAGTGAACCAGGGAATTTCACTCCTC  
TTTTTACACCCAGTCACCTGTGACAGCCACTTTGTCTGATGAGGATGATGGCTTCGTGGACCTTCTCGATGAG  
AGAATCTGAAGATGAGGAGGAGACCCCTCGTGCATGGCAAGCCTCTGGACAGCTCCTCTCGTCACTGAGAACTA  
CAAACCTTGACAACCGATGCAAGCTGTTGACTCCCTTCCCTGTGTAGCTCCAGCACTCGGTGAGTTGAAGA  
GACCAGAACGATCTCAAGAGGAGTCTCCACCTGGAAGTACAAAGAGGAGGAAGAGCATGTCTGGGGCCAGCCCCA  
AAGAGTCAACTAATCCAGAGAAGGCCCATGAGACTCTTCATCAGTCTTTATCCCTGGCATCTTCCCCAAAGGAA  
CCATTGAGAACATTTGGACAATGACCCAAGGGACCTTAGGAGACTTCTCCAAGGGTTATCTCTTTCATACAG  
TTGCTGGGAAACATCAGGATTTAAATACATCTCTCCAGAAATTATGGCATCTGTTTTGAATGGCAAGTTTGCCA  
ACCTCATTAAGAGTTTGTATCATCGACTGTGATACCCATATGAATACGAGGGAGGCCACATCAAGGGTGCAG  
TGAACCTGCACATGGAAGAAGAGGTTGAAGACTTCTTATTGAAGAAGCCCATGTACCTACTGATGGCAAGCGTG  
TCATTGTTGTGTTTCACTGCGAGTTTTCTTCTGAGAGAGGTCCCCGCATGTGCCGGTATGTGAGAGAGAGATC  
GCCTGGGTAATGAATACCCCAAACCTCCACTACCCTGAGCTGTATGTCCTGAAGGGGGGATACAAGGAGTTCTTTA  
TGAAATGCCAGTCTTACTGTGAGCCCCCTAGCTACCGGCCCATGCACCACGAGGACTTTAAAGAAGACCTGAAGA  
AGTTCCGCACCAAGAGCCGGACCTGGGCAGGGGAGAAGAGCAAGAGGGAGATGTACAGTCGTCTGAAGAAGCTCT  
GAGGGCGGCAGGACCAGCCAGCAGCAGCCCAAGCTTCCCTCCATCCCCCTTACCCTCTTTGCTGCAGAGAACT  
TAAGCAAAGGGGACAGCTGTGTGACATTTGGAGAGGGGGCTGGGACTTCCATGCCTTAAACCTACCTCCCACAC  
TCCCAAGGTTGGAGCCCAGGGCATCTTGCTGGCTACGCCCTTCTGTCCCTGTTAGACGTCCTCCGTCCATATCA  
GAACTGTGCCACAATGCAGTTCTGAGCACCGTGTCAAGCTGCTCTGAGCCACAGTGGGATGAACCAGCCGGGGCC  
TTATCGGGCTCCAGCCATCTCATGAGGGGAGAGGAGACGGAGGGGAGTAGAGAAGTTACACAGAAATGCTGCTGG  
CCAAATAGCAAAGA

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**FIGURE 1128**

GAATTCCGGCCATGAAAGACCCAAAGGAATGGCCACTCCCTGGGGCGGTGGTCACTGGTGCTCCTGCTGCTGGGCC  
TGGTGATGCCTCTGGCCATCATTGCCCAGGTCCTCAGCTACAAGGAAGCTGTCTTCGTGCTATAGATGGCATCA  
ACCAGCGGTCTCTGGATGCTAACCTCTACCGCCTCCTGGACCTGGACCCCAGGCCACGATGGATGGGGACCCAG  
ACACGCCAAAGCCTGTGAGCTTCACAGTGAAGGAGACAGTGTGCCCCAGGACGACACAGCAGTCACCAGAGGATT  
GTGACTTCAAGAAGGACGGGCTGGTGAAGCGGTGTATGGGGACAGTGACCCTCAACCAGGCCAGGGGCTCCTTTG  
ACATCAGTTGTGATAAGGATAACAAGAGATTTGCCCTGCTGGGTGATTTCTCCGGAAATCTAAAGAGAAGATTG  
GCAAAGAGTTTAAAAGAATTGTCCAGAGAATCAAGGATTTTTTGCGGAATCTTGTACCCAGGACAGAGTCCTTAGT  
GTGTGCCCTACCCTGGCTCAGGCTTCTGGGCTCTGAGAAATAAACTATGAGAGCAATTTCAAAAAAAAAAAAAA  
AAAAAACCGGAATTC

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**FIGURE 1129**

MKTQRNGHSLGRWSLVLLLLGLVMPLAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLDLDPRPTMDGDPDTPK  
PVSFTVKETVCPRTTQQSPEDCDFKKDGLVKRCMGTVTLNQARGSFDISCDKNKRFALLGDFFRKSKEKIGKEF  
KRIVQRIKDFLRNLVPRTES

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**FIGURE 1130**

CGTGCGTGCGCGCGCAGATGTGGGCCCCGCGGGAGCAGCTACTGGGCTGGACTGCGGAAGCTCTGCCTGCCAAGG  
ATTCTGCCTGGCCCTGGGAAGAGAAGCCTAGATATCTGGTTCCAGTGGCAGATGGGGCACTGGCCAGAGGGGTTA  
GGAGGATTGGACTCTCCTTGGGAGTCGCTGTGATACGGCCTTCAATTATAGTTGTCTTTCCTTCTTGGATTTC  
ACCACTTCCCTGAAACCACGAGCTGGAAGCTGAGACCAGCTGGTCACTGCTGGGCCTGCTAGGAGCCCACACGGA  
AGCTGCCCACAGCCAGACACCAGAGCCTCAAAGGCCGCCATCTTGAAAAACCAACCCTGACCTCCACAATGATTG  
ATTTTCAAATGTTGAACCAGCTTTGCAGAACTATAATAAACCCAAGTGTGATACCCTGTCTCAAGTATTGTGGTG  
ATCAAATAGGACCAGTGACTTTCGAGGATGTGGCTGTGCTTTTCACTGAGGCAGAGTGGAAGAGACTGAGCCTTG  
AGCAGAGGAACCTATACAAAGAAGTGATGCTGGAAAATCTCAGGAATCTGGTCTCATTGGAATCAAAGCCAGAAG  
TCCATACCTGCCCTTCTTGCCCTCTGGCCTTTGGCAGTCAGCAGTTTCTCAGCCAAGATGAGCTACACAATCATC  
CTATTCAGGTTTTCATGCAGGAAATCAACTCCACCCAGGAAATCCCTGCCCAGAGGATCAGCCACAGTCACAAC  
ATCCTTCTGATAAAATCACAGGGGGGCTGAAGCAGAAGATCAACGAGTGGAAGGAGGCGTCAGACCCTTGT  
GGAGTACAAATGAAAGGGGGGCTTTAGTGGGTTTCTCTAGCCTGTTCAGAGACCACCAATAAGCTCTTGGGGAG  
GCAACAGAATATTAGAGATACAGCTCAGTCCAGCCCAGAATGCAAGCTCTGAGGAAGTAGACAGAATTTCCAAGA  
GGGCAGAAACCCAGGGTTTGGAGCAGTCACGTTTGGGGAGTGTGCACTAGCTTTTAAACCAGAAGTCAAACCTGT  
TCAGACAGAAGGCAGTCACAGCAGAAAAATCTTCAGACAAAAGGCAGTCACAGGTGTGCAGGGAGTGTGGGCGAG  
GCTTTAGCAGGAAGTCACAGCTCATCATACACCAGAGGACACACACAGGAGAAAAGCCTTATGTCTGCGGAGAGT  
GTGGGCGAGGCTTTATAGTTGAGTCAGTCTCCGCAACCACCTGAGTACACACTCCGGGGAGAAACCTTATGTGT  
GCAGCCATTGTGGGCGAGGCTTTAGCTGCAAGCCATACCTCATCAGACATCAGAGGACACACACAAGGGAGAAAT  
CGTTTATGTGCACAGTGTGTGGGCGAGGCTTTCGTGAAAAGTCAGAGCTCATTAAAGCACCAGAGGTGTCAAGTGA  
CGGTCCCCCTGGAGGAATGGTCTTTGCATCTGACTACTTCTTCTGCAACTGTGTCTTCCATTAGCTTCCATGA  
CACTCTCCTGCTTTATTTTTTCTACATCTCTAGCCTTTGCTGTTTCTCTCTCTACCCACCTTTAGATTTTACT  
CAGAGTTCAGTCTCCAGCCCTACAATCTGAGGGACACCTTTACCAGGTCCCCTTCCTAACCCCTCAGTCCCCAAAT  
CCAAGATTCTTTAAACCACACTCTAAAAGTTCTTCAGACTCAGGACTTAAACATAGCCACGCCACCTTGGCCTTCA  
ATGACAGGGATCTAGCAATGCTGCATCATCAGCCTTCCAATACCAGGTTTAAAGGGTATTTTAAACACAGCTCCTC  
TTAAATCCTCCAATCTCAGTACCCAGTGTTTTAGCCATGCTCGGGTGGCTAAATTACATCCAGGAATGGTGCCAG  
GGCCTTTAGCCATTTGTCTCTCCTCACACTCCAGGGCCCATATGGCCCAGGTTCTGACAGTTTGCCTTACTCCCT  
TGGGCTGGGGCTAGCCCTACCTGATACCCTGTGTCAATGAGTGTACCTTGGAGAGCTATCCACTCAGGCCCCAGT  
GCCTCTATTTGCTAAGGGACTCTGCCACAGAAAAGAAGGGGAGAGATGTTTATGTAACTCAAATACTTAGGCT  
TGGTTTTGATGCTAGAGAGGAAAAAGGACTTGGAGAGAGAGAAGGAATGGCTGGTCCAGAGGCTTTTGTCCACTC  
CCTCTCACTGGAAGTGTTGATCTCCAGGGAATCCCCAAGGTTAGCCTGCTTAGGGGAAGGGCTAGGGGTACCTG  
GAATGTAGGATCTCCCCATGCCTGGCCTACCACCCTAATGTGTCTGGAATTGGTGGGTTCTTGGTCTTGCTGAC  
TTCAAGAAATGAAGCCGTGGACCCTCAGGTGAGTGTTACAATTCTTAAA

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**FIGURE 1131**

CAGCGTGCCTGCCAGTGTAGAGCCGGTGGAGCAGCTGGGCTCGGCGCTGAGGTTTCGCCCTGGCTACAACGACCC  
CATGTCAGGGTTCCGAGCGACCTTGGCCGTTGGCCTGACCATCTTTTGIGCTGTCTGTCTGTCCTACTATCATCATCTG  
CTTACCTGCTCCTGCTGCTGCCTTTACAAGACGTGCCGCCGACCACGTCCCTCCAAGTGTGCCGCCCAGCTACC  
CTGGACCAAGCTACCAGGGCTACCACACCATGCCGCCTCAGCCAGGGATGCCAGCAGCACCCCTACCCAATGCAGT  
ACCCACCACCTTACCAGCCCAGCCCATGGGCCCCACCGCCTACCACGAGACCCCTGGCTGGAGGAGCAGCCGCGC  
CCTACCCCGCCAGCCAGCCTCCTTACAACCCGGCCTACATGGATGCCCCGAAGGCGGCCCTCTGAGCATTCCCTG  
GCCTCTCTGGCTGCCACTTGTTATGTTGTGTGTGTGTGCGTGAGTGGTGTGCAGGCGCGGTTCCCTACGCCCCATG  
TGTGCTGTGTGTGTCTCAGGCACGGTTCCCTACGCCCCATGTGTGCTGTGTGTGTCTTGCCTGTATATGTGGCTTC  
CTCTGATGCTGACAAGGTGGGGAACAATCCTTGCCAGAGTGGGCTGGGACCAGACTTTGTTCTCTTCCTCACCTG  
AAATTATGCTTCCCTAAAATCTCAAGCCAACTCAAAGAATGGGGTGGTGGGGGGCACCCCTGTGAGGTGGCCCCTG  
AGAGGTGGGGGCCTCTCCAGGGCACATCTGGAGTTCTTCTCCAGCTTACCCTAGGGTGACCAAGTAGGGCCTGTC  
ACACCAGGGTGGCGCAGCTTTCTGTGTGATGCAGATGTGTCTGGTTTCGGCAGCGTAGCCAGCTGCTGCTTGAG  
GCCATGGCTCGTCCCCGAGTTGGGGGTACCCGTTGCAGAGCCAGGGACATGATGCAGGCGAAGCTTGGGATCTG  
GCCAAGTTGGACTTTGATCCTTTGGGCAGATGTCCCATTGCTCCCTGGAGCCTGTCATGCCTGTTGGGGATCAGG  
CAGCCTCCTGATGCCAGAACACCTCAGGCAGAGCCCTACTCAGCTGTACCTGTCTGCCTGGAETGTCCCCTGTCC  
CCGCATCTCCCCTGGGACCAGCTGGAGGGCCACATGCACACACAGCCTAGCTGCCCCCAGGGAGCTCTGCTGCCC  
TTGCTGGCCCTGCCCTTCCCACAGGTGAGCAGGGCTCCTGTCCACCAGCACACTCAGTTCTCTTCCCTGCAGTGT  
TTTCATTTTATTTTAGCCAAACATTTTGCTGTTTTCTGTTTCAAACATGATAGTTGATATGAGACTGAAACCCC  
TGGGTTGTGGAGGGAATTTGGCTCAGAGATGGACAACCTGGCAACTGTGAGTCCCTGCTTCCCGACACCAGCCTC  
ATGGAATATGCAACAACTCCTGTACCCAGTCCACGGTGTTCTGGCAGCAGGGACACCTGGGCCAATGGGCCATC  
TGGACCAAAGGTGGGGTGTGGGGCCCTGGATGGCAGCTCTGGCCCAGACATGAATACCTCGTGTTCCTCCTCCCT  
CTATTACTGTTTACCAGAGCTGTCTTAGCTCAAATCTGTTGTGTTTCTGAGTCTAGGGTCTGTACACTTGTTTA  
TAATAAATGCAATCGTTTGG

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**FIGURE 1132A**

AGCGAACCATCGGGGCGGCCGGGAGCCATGTTGGAGCGGCGGGAGGCGGCAGCAGCGTCGGGGATGCTGTGGTGG  
GGGCGGAAAAAGCCAGGGGCCGCACGCCGAGGGGGCTCCGGCCGCGGAGTAGATGGTGCCAGAGGGCGGGGGGG  
TGCGGAGAGACAGGCGGAGGGGCGGGGCCCCGGGGCGGCGGCAGGGGCCCGGGAGGGGGCCCCAGCGGCGGGGGC  
AGCCCAAGGCCCGGACCGGGGCGGGGGCGGTGGAGGCCGTGCAGGGAGGCGGGAGATGATGGCGAGGCGGGCCGC  
CGTGGCGGGGCTCGGGGAACGGTCGACCCCCATACTCCTGCTCCTTCTCCTCTCTTTGTTCCCCCTCAGCCAGG  
AGGAGCTGGGGGGCGGTGGGCACCAGGGCTGGGACCCAGGCTTAGCTGCCACTACGGGGCCAAGGGCGCATATCG  
GTGGCGGAGCCTTAGCTCTTTGTCCGAGTCTTCCGGGGTCCGGGAGGATGGGGGGCTGGCCTGGGGGTACAGGG  
AGCCTATCTTCGTGGGGCTCCGAGGGAGAAGGCAAAGCGCCCGGAATAGTCAGGGGCCCCCTGAGCAGCCGAATG  
AGGAGCTGGGGATTGAACACGGCGTCCAGCCATTGGGCAGCCGCAACGAGAGACAGGACAGGGACCAGGGTCTG  
TGTTATACTGGGCCCCAGAGGTCTCCTCTTGGCGGCGGACAGGACCTTTGCAAGAGGTTAGTCTGTACACAGGGG  
CTCTGTCTCAGGGTCCCCGGGCTCGGGGAACAGCTCGCCCTCCCTTCAGACTTTTTGATTCCGGCACCACGGTC  
CCAAGCCGGTGTCTCCAGCGGAACGCTGGGACAGGCTCCCGCAAAAGAGTGGGCACCGCGCGCTGCTGTGGGG  
AATTATGGGCAACAGGGAGCAAGGGTCAGGGCGAGAGAGCCACGACATCCGGAGCAGAAAGGACAGCCCCCGGC  
GGAACTGTCTTCCAGGGGCTCGGGATCTGGCCCCGAGCTGGATTTCAGCACCACGCACGGCGAGGACAGCTCCTG  
CATCAGGTTTCAGCACCCTCGGAGTCTCGGACAGCTCCCGAGCCGGCGCCCCAAGCGCATGCGCTCCCGGGGTCTCT  
TCCGCTGCCGCTTCTTCCCGCAGCGCCCCGGGCGCGTCCCCCGGGACTCCCGGCCCGTCTGAAGCCAGGAAAG  
TAACCTCGGCGAACCAGGCGACGCTTTCGTGCGCGCGCAAACCGCCACCCGCACTTCCGCAGTACAACTACCAGA  
CGCTGGTGCCGGAGAATGAGGCAGCAGGCACCGCGGTGCTACGCGTGGTTGCTCAGGACCCGGACCGCGCGAGG  
CCGGGCGCCTAGTCTACTCGCTGGCGGCACTCATGAACAGCCGCTCGCTGGAGCTGTTTCAGCATCGACCCGCGAGA  
GCGGCTTATCCGTACGGCGGCAGCTCTGGACCGCGAGAGCATGGAGCGTCACTACCTGCGTGTGACCGCGCAGG  
ACCACGGGTGCGCGCGCTCTCGGCCACCACGATGGTGGCCGTGACAGTAGCCGACCGCAACGACCACTCGCCGG  
TTTTTGAGCAAGCGCAGTACCGGGAGACCTTTCGCGAGAATGTGGAGGAGGGCTACCTATCTTCAGCTGCGTG  
CCACTGACGGCGACGCGCCCCCAACGCCAACCTGCGCTACCGCTTCGTGGGGCCGCGAGCTGCGCGCGCTGCAG  
CTGCCGCCGCTTCGAGATTGATCCACGCTCCGGCTCATCAGCACCAGCGCCGAGTGGACCGCGAGCACATGG  
AAAGCTATGAGCTGGTGGTGAAGCCAGCGACCGAGGGCCAGGAACCCGGGCGCGCTCGGCCACTGTGCGCGTAC  
ACATAACTGTGCTAGACGAGAACGACAATGCTCCTCAGTTCAGCGAGAAGCGCTACGTGGCGCAGGTGCGCGAGG  
ATGTGCGCCCCACACAGTCGTGCTGCGCGTACGGCCACTGACCGGGACAAGGACGCCAACGGATTGGTGCAC  
ACAACATCATCAGTGGAATAGCCGTGGACACTTTGCCATCGACAGCCTCACTGGCGAGATCCAGGTGGTGGCAC  
CTCTGGACTTCGAGGCGAGAGAGAGTATGCTTGGCATCAGGGCGCAGGATGCTGGCCGGCCACCGCTGTCCA  
ACAACACGGGCTGGCCAGCATCCAGGTGGTGGACATCAATGACCACATTCTATTTTTGTACGACGCCCTTCC  
AAGTTTCTGTCTTGGAAATGCTCCCTTGGGTCACTCAGTCATCCACATTAGGCAGTCGATGCAGACCATGGGG  
AGAATGCCAGATTGGAGTACTCCCTAAGTGGTGTGGCACCTGATACTCCTTTTGTGATAAACAGCGCCACTGGCT  
GGGTCTCTGTGAGTGGTCCCTGGACCGTGAGTCTGTGGAGCATTACTTCTTTGGTGTGGAGGCTCGAGACCATG  
GCTACCCCCACTCTCTGCCTCAGCCAGTGTACCGTGACTGTGCTGGACGTTAATGACAATCGGCTGAGTTCA  
CAATGAAGGAGTACCACCTACGACTGAATGAGGATGCAGCTGTGGGCACAGTGTGGTCAGCGTGACCGCAGTAG  
ACCGTGATGCCAACAGTGCCATCAGCTACCAGATCACAGGCGGCAACACCCGGAATCGCTTTGCCATCAGCACCC  
AGGGGGGTGTGGGTCTGGTGACTCTGGCTCTGCCACTGGACTACAAGCAGGAACGCTACTTCAAGCTGGTACTAA  
CTGCATCTGACCGTGCCCTTCATGATCACTGCTATGTGCACATCAACATCACAGATGCCAACACTCATCGGCCGG  
TCTTTCAAAGTGCCCACTACTCAGTGAGTGTGAATGAAGATCGGCCAATGGGTAGCACCATAGTGGTCATCAGTG  
CCTCTGATGATGACGTGGGTGAGAATGCTCGTATCACCTATCTCCTGGAGGACAACCTGCCCCAGTTCGGCATTG  
ATGCAGACTCAGGAGCCATTACATTACAGGCCCCATTAGACTATGAGGACCAGGTGACCTACACCTGGCTATCA  
CAGCTCGGGACAATGGCATCCACAGAAGGCAGACACTACTTATGTGGAGGTGATGGTCAATGACGTGAATGACA  
ATGTCCACAATTGTGGCCTCCCACTATACAGGGCTGGTCTCTGAGGATGCCCCACCTTTACCACTGTCTCTGC  
AGATCTCAGCCACTGACCGGGATGCTCATGCCAATGGCCGGGTCCAGTACACTTTCCAGAATGGTGAAGATGGGG  
ATGGAGATTTTACCATTGAGCCCACCTCTGGAATTGTCCGTACAGTAAGGCGGCTAGACCGGGAGGCAGTATCAG  
TGTATGAGTTGACTGCCTACGCAGTGGACAGAGGTGTGCCCCACTCCGACTCCAGTCAGTATCCAGGTGATGG  
TGCAGGATGTGAACGACAATGCACCTGTCTTCCAGCTGAGGAGTTTGAAGTGGGGTGAAAGAGAATAGCATTG  
TGGGCTCAGTGGTGGCCAGATCACTGCAGTGGACCTGACGAAGGCCCAATGCCCATATAATGTACCAGATCG



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**FIGURE 1132B**

TGGAGGGGAACATCCCTGAGCTGTTCCAAATGGACATCTTCTCTGGAGAACTGACGGCACTCATTGACCTAGACT  
ATGAGGCTCGCCAAGAATATGTGATTGTGGTGCAGGCCACATCTGCTCCTTTGGTCAGCCGGGCCACTGTGCACG  
TCCGCCTGGTTGACCAGAAATGACAACAGCCCTGTGCTCAACAACTTCCAGATCCTCTTCAACAACTATGTATCCA  
ACCGTTTCAGACACCTTCCCGTCGGGCATTATTGGGCGCATCCAGCTTATGACCCCGATGTCTCCGACCACCTCT  
TCTACTCCTTTGAGCGTGGAATGAGCTGCAGCTGCTGGTAGTCAACCAGACCAGTGGGGAGCTGCGACTCAGCC  
GAAAGCTAGACAATAACCGCCCACTGGTGGCCTCCATGTTGGTGAAGTGTACAGATGGCCTGCACAGCGTGACGG  
CGCAGTGTGTGCTGCGCGTGGTCATCATCACGGAGGAGTTGTGGCCAACAGCCTGACCGTGCGCCTTGAGAACA  
TGTGGCAGGAGCGCTTCTGTACCCGCTGCTGGGCCGCTTCTCGAGGGCGTGGCTGCGGTGCTCGCTACGCCCCG  
CTGAGGACGTCTTCATCTTCAACATCCAGAACGACACAGACGTAGGGGGCACCCTGCTCAATGTGAGTTTCTCGG  
CGCTAGCTCCACGTGGGGCCGGGGCGGGCGCTGCAGGGCCCTGGTTTCAGCTCCGAGGAGCTGCAGGAGCAGTTGT  
ACGTGCGCGGGGGCGGCGCTGGCGGCTCGCTCCCTGCTCGACGTAAGTGCCTTTCGACGACAACGTGTGCTGCGAG  
AGCCCTGTGAGAACTACATGAAATGCGTGTCCGTGCTCCGCTTTGACTCGTCCGCGCCCTTCTGGCCTCGGCCT  
CCACGCTGTTCCGACCCATCCAGCCCATCGCTGGCCTGCGCTGCCGCTGCCCGCCCGGATTACGGGAGACTTTT  
GCGAGACCGAGCTCGACCTCTGCTACTCCAACCCATGTGCAACGGCGGAGCCTGCGCGGGCGCGAGGGAGGCT  
ACACGTGCGTCTGCCGCCCCGCGCTTACCCGAGAGGAGTGCAGAGCTGGACACCGAGGCCGGCCGCTGCGTGCCGG  
GCGTCTGCCGCAACGGGGGCACCTGCACCCGACGCGCCCAACGGCGGCTTTCGCTGCCAGTGCCCGGCAGGCGGGC  
CCTTCGAGGGCCCGCGCTGCGAGGTGGCTGCGCGCTCCTTCCCGCCAGTTTCGTTTCGTCATGTTTCGCGGCTGCG  
GGCAGCGATTCCACCTTACGCTGTCCCTCTCGTTTCGCGACAGTGCAGCAGAGCGGGCTGCTCTTCTACAACGGGC  
GCCTGAACGAGAAGCACGACTTCTGGCCCTGGAACCTGCTGGCTGGCCAAGTGGCGCTCACATATCCACGGGTG  
AATCCAACACCGTGGTCAGCCCCACAGTTCCAGGGGGCTTGAGTGACGGGCAATGGCATAAGTGCATCTGAGAT  
ACTACAACAAGCCCCGACAGATGCCCTAGGGGGTGACAGGGGCCCTCCAAGGACAAGGTGGCTGTGCTAAGCG  
TGGATGATTGTGATGTGGCCGTGGCTCTGCAGTTTGGTGTGAGATTGGCAACTACTCATGCGCGGCTGCTGGTG  
TGCAACAAGCTCCAAGAAGTCCCTGGACCTGACGGGCCCTCTTCTTCTGGGAGGTGTCCCAACCTCCCGGAGA  
ACTTCCCCGTATCCCATAGGACTTCAATCGGCTGTATGCGGGACCTGCACATTGATGGCCGCGAGTGGACATGG  
CGGCTTTTGTGCGAAATAATGGCACCATGGCAGGCTGCCAAGCCAAGCTACACTTTTGTGACTCAGGCCCTGCA  
AGAACAGTGGCTTCTGCTCGGAGCGCTGGGGCAGCTCAGCTGCGACTGCCCTGTGGGCTTCGGCGGCAAGACT  
GTCAGCTTACTATGGCCCATCCCCACCATTTCCGTGGCAACGGCACACTGAGCTGGAACCTTGGAAAGTGACATGG  
CTGTGTCTGTGCCATGGTACCTGGGGCTGGCATTTCGGACACGGGCAACGCAGGGGGTCTGTATGCAAGTGACG  
CTGGGCCACACAGCAGCTCCTTTGCCAGCTAGATCGGGGGTTACTGTCTGTGACAGTGACAGGGGCTCGGGCC  
GTGCTTCCATCTCCTTCTGGACCAGGTGACTGTCACTGATGGCCGGTGGCACGATCTGCGGCTGGAGTTGCAGG  
AGGAACAGGTGGCCGGCGGGGCCACCATGTCTTATGGTCTCACTGGACTTTAGCCTCTTCCAGGACACCATGG  
CGGTGGGGAGTGAGCTGCAGGGCCTGAAGGTAAAGCAGCTCCACGTGGGAGGCTGCCCGGCGAGTGACAGG  
AGGCTCCTCAGGGTCTGGTTGGCTGCATCCAGGGGGTGTGGCTCGGCTCCACACCCTCTGGCTCCCCGGCCCTGC  
TACCCCCAGCCACCGAGTGAATGCGGAGCCTGGCTGTGTTGTGACCAACGCTGTGCCCTCTGGGCCCTGCCAC  
CTCAGCAGACTGCCGGGACCTCTGGCAGACCTTTTCTGACCTGCCAGCCAGGTTACTACGGCCAGGCTGTG  
TGGATGCCTGCCCTCTGAACCCCTGTGAGAACCAGGATCATGCCGGCACCTGCCAGGAGCCCCCATGGCTATA  
CCTGTGACTGTGTGGGTGGCTATTTCCGGGCACCACTGTGAGCACAGGATGGACCAGCAGTGGCCACGGGGCTGGT  
GGGGGAGCCCAACCTGTGGCCCTGCAACTGTGATGTTACAAAGGTTTGTATCCCAACTGCAACAAGACAAATG  
GGCAGTGTCACTGCAAGGAGTTCCACTACCGACCGGGGCGAGTACTCTTGCCTCCCATGTGACTGCTACCCCTG  
TGGGCTCCACCTCGCGCTCATGTGCACCCACAGCGGGCAGTGCCCTGTGCGCCAGGAGCCCTTGGCCGCCAGT  
GCAACAGCTGTGACAGTCCCTTCGAGAGGTGACAGCCAGCGGCTGCCGGGTGCTCTATGATGCCTGCCCTAAGT  
CCCTGAGATCTGGTGTGTGGTGGCCCCAGACAAAGTTTGGCGTCTGGCCACAGTGCCCTGTCCCCGGGGGGCCCC  
TGGGTGCTGCTGTGCGGCTGTGTGATGAGGCCAGGGTTGGCTGGAGCCGACCTCTTCAACTGTACCTCCCTG  
CCTTTCGAGAGCTCAGTCTGCTGCTGATGGCCTAGAGCTGAACAAGACGGCACTGGATACCATGGAGGCCAAGA  
AGCTGGCTCAGCGGCTACGGGAGGTGACTGGCCACACTGACCACTATTTTAGCCAAGATGTTTCGAGTCACTGCCC  
GCCTGCTGGCCACCTGCTGGCCTTCGAGAGCCATCAGCAGGGCTTCGGGCTGACAGCCACAGGATGCCCACT  
TCAATGAGAATCTGCTGTGGGCCGCTCTGCACTGCTTGCCCCAGAGACAGGGGACTTGTGGGCGGCGCTGGGGC  
AGCGGGCCCCCTGGGGGCTCCCCAGGCAGCGCGGGACTGGTGAGGCACCTGGAGGAGTATGCAGCCACACTCGCAA

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**FIGURE 1132C**

GGAATATGGAACACATACCTGAATCCCATGGGGCTGGTGACGCCTAATATCATGCTCAGCATTGACCGCATGG  
AGCACCCCAGTTCTCCCCGGGGGGCCCGTCGCTACCCTCGCTACCATAGCAACCTCTTTGAGGCCAGGATGCCT  
GGGATCCTCACACCCATGTGCTGCTGCCTTCCAGTCCCCACGGCCATCCCCATCTGAAGTTCTGCCCACAAGCA  
GCAGCATAGAAAACCTCCACCACCTCAAGTGTGGTCCCCCACCAGCCCCGCCAGAGCCAGAGCCTGGGATCTCCA  
TTATCATTCTCCTCGTTTACCGCACCTTAGGGGGACTGCTCCCTGCCCAGTTCCAGGCAGAACGCCGAGGTGCCA  
GGCTTCTCAGAACCCCGTCATGAACCTCCCGGTGGTCAGCGTGGCTGTGTTCCACGGACGCAACTTCCTAAGGG  
GAATCCTGGAGTCCCCCATCAGCCTAGAGTTTCGCCTGCTACAGACAGCGAATCGGAGCAAGGCGATCTGTGTGC  
AGTGGGACCCACCTGGCCTGGCGGAGCAGCATGGTGTGTGGACAGCAGGGACTGCGAGCTGGTGCACAGGAATG  
GGTCCCACGCACGGGTGTGCTGCAGCCGGACAGGGACCTTTGGGGTCTCATGGATGCCTCTCCCCGTGAGAGGC  
TGGAGGGCGACCTGGAGCTGCTGGCTGTGTTACCCACGTGGTCTGGCTGTGCTGTGGCTGCGCTGGTGTGTA  
CTGCAGCCATCCTGCTGAGCCTGCGCAGCCTCAAGTCCAATGTGCGTGGGATCCATGCCAATGTGGCAGCCGCCC  
TGGGGGTGGCAGAGCTCCTCTTCTGCTGGGGATTACAGGACCCACAATCAGCTGGTGTGCACTGCAGTGCCTCA  
TCCTCCTGCACTACTTCTTCTCAGCACCTTCGCGTGGCTCTTCGTGCAGGGGCTGCACCTCTACCGCATGCAGG  
TTGAGCCACGCAACGTGGACCGCGCGCCATGCCTTCTACCATGCCCTGGGCTGGGGCGTCCCTGCTGTGCTGC  
TGGGCCTTGCTGTGGGCCTGGACCTGAGGGCTATGGGAACCTGACTTCTGCTGGATCTCAGTCCACGAGCCCC  
TCATCTGGAGCTTTGCTGGCCCTGTTGTCTGGTCAATGTGATGAACGGGACCATGTTCTCTCTCGCTGCCCGCA  
CATCCTGCTCCACAGGGCAGAGGGAGGCCAAGAAGACCTCTGCACTGACCCCTTCGCAGCTCCTTCCTGCTGCTTC  
TGCTGGTCACTGCTCCTGGCTCTTTGGGCTCCTGGCAGTCAACCACAGCATCCTAGCCTTCCACTACCTCCATG  
CTGGACTCTGCGGCCTCCAGGGCCTGGCGGTGCTGCTGCTCTTCTGTGCTCTAAATGCAGATGCTCGGGCTGCCT  
GGATGCCAGCCTGTCTGGGCAGGAAGGCAGCGCCTGAGGAGGCAAGGCCAGCACCTGGGCTGGGACCTGGGGCCT  
ACAACAACACGGCTCTCTTTGAGGAGAGTGGCCTCATCCGCATCACTCTGGGCGCCTCCACCGTCTCCTCTGTGA  
GCAGTGGCCGCTCCGGCCGAGCCAGGACAGCCAGCGGGGCCAGCTACCTCAGGGACAATGTCTGTG  
TTCGACATGGCTCAGCCGCTGACCACACTGACCACAGCCTCCAGGCTCATGCTGGCCCCACTGACCTGGACGTGG  
CCATGTTCCATCAGAGATGCTGGCGCAGACTCCGACTCTGACAGTGACCTGTCTTGGAGGAGGAGAGGAGTCTCT  
CCATTCCATCTTCAGAAAGCGAGGACAATGGCCGGACGCGGGGGCGCTTCCAACGGCCACTCTGCCGAGCCGCCC  
AGAGTGAGAGGCTCCTCACCCACCCCAAAGATGTGGATGGCAATGACCTCCTGTCTACTGGCCAGCCCTGGGGG  
AGTGGCAGGACAGCCCCCTGTGCTCTGCAGACTTGGGGCTCTGAAAGGCGCCTGGGGCTGGACACCAGCAAGGATG  
CAGCTAACAACAACAGCCAGACCCGGCCCTGACCAGTGGGGATGAGACTTCTCTGGGCGGGCCAGCGCCAGA  
GGAAAGGCATCCTGAAGAACCGGTTGCAATACCCACTGGTGCCACAGACCCGAGGTGCCCTGAGCTGTCTGGT  
GCCGTGCAGCCACCTTGGGGCACCGTGCACTGCGAGCTGCCTCTTACGGTTCGCATCTATGCTGGCGGGGACGG  
GCAGCCTTTCACAGCCAGCCAGCCGCTACTCTTCTAGAGAACAGCTGGACCTGCTCTCCGGCGGCAACTGAGCC  
GTGAGCGACTAGAGGAAGCCCCCTGCCCTGTCTACGTCCCCCTGAGCCGGCCAGGGTCCAGGAATGCATGGATG  
CTGCACCAGGCCGACTGGAGCCCAAAGATCGGGGCAGCACCTGCCACGGAGGCAGCCACCTCGGGACTACCTG  
GCGCCATGGCTGGCCGCTTCGGGTACGGGATGCGCTCGACTTAGGGGCACCTCGAGAGTGGTTGAGCACGCTGC  
CTCCGCCCCGCGCACCCGGGACCTTGACCCACAGCCCCACCTCTGCCCTGTCTCCCCAGCGGCAACTCTCAA  
GGGACCCCCCTCTTGCCATCCCGGCCGCTGGACTCTGTCTAGGAGCTCGAAGCTCTCGGGAGCAGCTGGACCAGG  
TGCTTAGCCGGCACCCCTCACGAGAAGCCCTTGGGCCACTCCCGCAGCTGCTCAGAGCTAGGGAGGACTCGGTCA  
CCCTCTCCTCTGTGCAATCTTCAAGCACACCCCTTGGGCCCTCACACCCTGCCACACCTTCTGCCACAGCCTCTG  
TGCTTGGGCCCCCAGCCATGGCCCCCTCCACAGAACAGTTGGACATTTCTTCTCCATCCTTGCTCTTTCAACTCCTCGG  
GAAGTGAGGGTCACTCTGAGGGGATGACGGCGTGGACGAGGAACAGCTGAGGGCGACAGAGGATCTAGGCTAAC  
AGGAGAGACTCCAGGAGTGGGGGACAGATCCCAAGGCAGCCTCCTGCTCCCCAGTGGTGGGTGCCCCAGCTCTACC  
TGGTGTGGCAGGGCTGAGGCTCCATGTGCATCTGTGAGCATGCGTGTGACAGGTGCAGAGACGGGGGACTGGAGG  
GAGACTTTTATACGTTTGTACCTTTGTAAACAGAGAGATGCTTATGTTATTTTTCAGCTTTTCTGTCTCCTGGG  
GGGTTTGAAGCTGGGCTGGGAGGGGGAGGAGATAGAGGAGAGATGAGTTTGACCCATTGGGGTCTGAGCA  
AACCCTATGCTCATCTCTCTCTCTCTTCTGGGGTGGACTCAGATGGGTGGGACACATGCCTTCTCCCCCTATTC  
CACCCCAAGTTGATCTGAGTATCGTCAGGGGGCCAAAGTACAGAATTGTTCTTTGCTTTTTATTGAATGCTCCA  
AAGGCCAACTTCTGGGGCTGGGGGTGGTCTTGAAACAGGGGTCTCTGACTTCTCATGGGGCTTGCTCAT

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**FIGURE 1132D**

ACCGCCCCCTCCTGGTGGATGTGTGTGTTTATTATGTGGAGTCCCTGCCACTTACTGCCTTATGACCTAGGACTGA  
TGCTGTGGGGTGCTGGTGGAGCAGCTGATGTCGTGTTTACAGAGCAAGGCTTCCCTGTCTCCCACGGGGAGGGGC  
TCGGGCCCTCTAGTCAGACATTCCCTGCAGAGGGTCGGTGGAGGGGTCATTACCTGCCCCCTGCAGCAAGCAAAAGT  
TGCTGTGGTGCCATTTGATTCCCTGACACTGCCCCCTGCTTGAATTGATTCCGAAGGGTAGGGTGGGAAGGTGA  
GCAAAGGGAGCAGAAACAAGGGAATTCAAGACCCAGAATGTAGGTGCCACTGCCTCCTATGTTTACAGGATCCTC  
CGTGGCCCCTAGGCACCTGGGCTGCAGGAAGTGACTCCGTTCCACTCCTCCTTTATTCCCTTAAAAAGGGAAAAAT  
GACTGTTACGACCCTGTTTACAAAACCTCTTACTTTTGCTATTTTGTCTGCTGTCCAGAACTGAAGACTTTAAAAT  
TTTGTTACTGTTTACAAGTCCAGATTCAAAAAATGTTTTTACTTTGTTTACAACCTCAAACTTTGAGTTTACAC  
TTTGTTTACAGTAGATAATTTTTTTTCCTTTGTGTTTCCAAGTGAAAGGTAGGGAAAGTGGGAGAGGGACTTGGAGG  
ACCCACCTGTGAGGACCCTGACCTGGCCATCTTGAGGGGTTTTCTAACCCCCAGGTCTCCAGGCCGAAGGTCAG  
CCTTGAGTCCCGTTTAAACAGCAGATCCAGAAGACCTTGAGAGTAGGCGTCCTCTAACCACGGGGGAGAGTGGCTG  
TGCAGGGCTGGGGGGTGGTCTGTGCAGACACCTCCTCACCCACCACCCCATGCATACTCTTGGGAAGCAGCTTCC  
TGGGAGATTAGAAATTCTACTTCCCTGACTGGAGCTAAATCCCACCAGCCAGGACCCAAACTCTCCTTACCGAGA  
AGGACCCCAGCTCTTGAAGGGCTGAGTGGCCTGCTGGGGGTGGGAGGGTGTCTTTACTATGTCCTAGGTTTCGTA  
GATGCCCCCTCTCTGGGGTTCCTCCTCCAGCCCAGCGGCCCTCTTTCCTGTCTGTGTAATTTGTTCCGTGAAGC  
CGCGCTCTGTTTTGGGAATAAACTTCTATAGAAAACAAAA

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**FIGURE 1133**

MMARRPPWRGLGERSTPILLLLLLSLFPLSQEELGGGGHQGWDPGLAATTGPAHIGGGALALCPESGVRDGG  
PGLGVREPIFVGLRGRQSSARNSRGPPEQPNEELGIEHGVQPLGSRERETGQPGSVLYWRPEVSSCGRTGPLQR  
GSLSPGALSSGVPGSGNSSPLPSDFLIRHHGPKPVSSQRNAGTGSRKRVGTARCCGELWATGSKGQGERATTSGA  
ERTAPRRNCLPGASGSGPELDSAPRTARTAPASGSAPRESRTAPEPAPKMRSRGLFRCRFLPQRPGRPPGLPA  
RPEARVTSANRARFRRAANRHPQFPQYNYQTLVPENEAAGTAVLRVVAQDPDAGEAGRLVYSLAALMNSRSLEL  
FSIDPQSGLIRTAALDRESMERHYLRVTAQDHGSPRLSATTMVAITVADRNDHSPVFEQAQYRETLRENVEEGY  
PILQLRATDGDAPPNANLRYRFVGPAAARAAAAFAIDPRSGLISTSGRVDREHMESYELVVEASDQGEQGPGR  
SATVRVHITVLDENDNAPQFSEKRYVAQVREDVRPHTVVLVLTATDRDKDANGLVHYNIIISGNSRGHFAIDSLTG  
EQVVPAPLDFAEREYALRIRAQDAGRPPLSNNTGLASIQVVDINDHIPFVSTPFQVSVLENAPLGHSVIHQA  
VDADHGENARLEYSITGVAPDTPFVINSATGWVSVSGPLDRESVEHYFFGVEARDHGSPPLSASASVTVTVDVN  
DNRPEFTMKEYHLRLNEDAAVGTSVSVTAVDORDANSAISYQITGGNTRNRAISTQGGVGLVTLALPLDYKQER  
YFKLVLTASDRALHDHCYVHINITDANTHRPVFQSAHYSVSVNEDRPMGSTIVVISASDDDVGENARITYLLEDN  
LPQFRIDADSGAITLQAPLDYEDQVYTLAITARDNGIPQKADTTYVEVMVNDVNDNAPQFVASHYTLGVSEDA  
PFTSVLQISATDRDAHANGRVQYTFQNGEDGDGDFTEIPTSGIVRTVRRLDREAVSVYELTAYAVDRGVPPRLTP  
VSIQVMVDVNDNAPVFPAAEFVVRVKENSIVGSVVAQITAVDPDEGPNAHIMYQIVEGNIPELFQMDIFSGELT  
ALIDLDEYARQEYVIVVQATSAPLVSRATVHVRLVDQNDNSPVLNNFQILFNHYVSNRSDTFPSGIIGRIPAYDP  
DVSDHLFYFSFERGNEQLLVVNQTSSELRLSRKLDNNRPLVASMLVTVDGLHSVTAQCVRVVIITEELLANSI  
TVRLENMWQERFLSPLLGRFLEGVAVLATPAEDVFIQNQNDTDVGGTVLNVFSFALAPRGAGAGAGAPWFSSE  
ELQEQLYVRRALAARSLLDVLFPDDNVCLREPCENYMKCVSVLRFDSAPFLASASTLFRFIQPIAGLRRCRCP  
GFTGDFCETELDLCYSNPCRNGGACARREGGYTCVCRPRFTGEDCELDTEAGRCVPGVCRNGGTCTDAPNGGFR  
QCPAGGAFEGPRCEVAARSFPSSSFVMFRGLRQRFHLTSLSFATVQQSGLLFYNGRLNEKHDFLALELVAGQVR  
LTYSTGESNTVVSPTVPFGGLSDGQWHTVHLRYYNKPRTDALGGAQGPSKDKVAVLSVDDCDVAVALQFGAEIGNY  
SCAAAGVQTSSKKSLLDTGLPLLLGGVPNLPENFPVSHKDFIGCMRDLHIDGRRVDMAAFVANNGTMAGCQAKLHF  
CDSGPCKNSGFCSERWGSFSCDCPVFGGKDCQLTMAHPHHFRGNTLSWNFGSDMAVSVPWYLGALFRTRATQ  
VLMQVQAGPHSTLLCQLDRGLLSVTVTRGSGRASHLLLDQVTVSDGRWHDRLRELQEEPGRGRGHVLMVSLDFS  
LFQDTMAVGSELOGLKVQLHVGGGLPPGSAEEAPQGLVGCIQGVWLGSTPSGSPALLPPSHRVNAEPGCVVTNAC  
ASGPCPPHADCDRLWQTFSTCQPGYYPGCVDACLLNFCQNGGSCRHLPGAPHGYTCDVGGYFGHHCHEHRMDQ  
QCPRGWWSPTCGPCNCDVHKGFDPNCNKTNGQCHKEFHRYRPGSDSCLPCDCYPVGSTSRSCAPHSGCPCRP  
GALGRQCNSCDSFPFAEVTASGCRVLYDACPKSLRSGVWVPQTKFGLATVPCPRGALGAAVRLCDEAGWLEPDL  
FNCTSPAFRELSLLDGLLELNKALTDMEAKKLAQRLREVTGHTDHYFSQDVRVTARLLAHLAFESHQQFGLT  
ATQDAHFNENLLWAGSALLAPETGDLWAALGQRAPGGSPGSAGLVHRHLEEYAATLARNMELTYLNPMLVTPNIM  
LSIDRMEHPSSPRGARRYPRYHSNLFERQDAWDPTHVLLPSQSPRPSPSEVLPTSSSIENSTTSVVPFPAPPE  
PEPGISIIILLVYRTLGGLLPAQFQAERRGARLPQNPVMNSPVSVAVFHGRNFLRGILESPISEFRLLQTANR  
SKAICVQWDPGLAEQHGVTARDCELVHRNGSHARCRCSTGTGVLMDASPRERLEGDLELLAVFTHVVAVS  
VAALVLTAAILLSLRSLSKSNVRGIHANVAAALGVAELLFLLGIHRTNQLVCTAVAILLHYFFLSTFAWLFVQGL  
HLYRMQVEPRNVDRGAMRFYHALGWGPVAVLLGLAVGLDPEGYGNPDFCWISVHEPLIWSFAGPVVLVIVMNGTM  
FLLAARTSCSTGQREAKKTSALTLRSSFLLLLVASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLLFCVLN  
ADARAAMWPAACGRKAAPPEARPAPGLPGAYNNALFEESGLIRITLGAIVSSSVSARSRTQDQDSQRGRSY  
LRDNLVLRHGSAADHTDHSIQAHAGPTDLDVAMFHRDAGADSDSDLSLEERSLSIPSSSEDNGRTRGRFQR  
PLCRAAQSERLLTHPKDVGNDLLSYWPALGECEAAPCALQTWGSERRGLDTSKDAANNQPDPAITSGDETSL  
GRAQRQRKGILKNRLQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYAGGGTGSLSQPASRYSSREQDLLL  
LRRQLSRERLEEAPAVLRPLSRPGSQECMDAAPGRLEPKDRGSTLPRRQPPRDYPGAMAGRFGSRDALDLGAPR  
EWLSTLPPRRTRDLPQPPPLPLSPQRQLSRDPLPSRPLDSLRSNSREQLDQVPSRHPSSREALGPLPQLLR  
AREDSVSGPSHGPSTEQLDILSSILASFNSALSSVQSSSTPLGPHTTATPSATASVLGPSTPRSATSHSISELS  
PDSEVPRSEGHS

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**FIGURE 1134**

TACTGACTTTTACGACCAACTTGTGGTCCCAGGTAAGTTTCCACGCTGGTACTTTAGCCCTGGGCTCGAACCTGC  
GGACACGCTGTGGCTGCAACTCCCCGCCCGCCAGACCTCAGTACGCGAGCGGGCTGGTGAGAAACATAATGCACT  
CTGACTTCCACGCGTGGAATGGGGAGATGGACTGCACGGCGGGCGGACCTGCTCGGGCTGATGGACGGCAGGTGG  
ACTGATGTGCGCAGGGACTGGCGGCAGCGCGGTGAGAGCCAGTCAGCCAAAGCCAGGCCAGCACAAATAGACTGTC  
CCGTTTCCCGCCAGGAGGCGGCCGAGCACCAACTGTACGGTACTGCGCCTGCGCCGCGACCGCCAACGCGCCCAG  
TCTACGCTTGCGCGGCGCAACAGGGCCGACTGCAGCTGGAAGATGCGGGCGTCCGTGGTCTGTGCGGGCCGCTACC  
GCCGGGGCACAAGTGCTATTGCGCGCCCGCGCTCGCCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCA  
ACCTTCGCTCAGGCGCTCCAGTTCGTGCGCGAGACGCGAGGTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCC  
GAGCAGTCCCTCAGCCCCACTTGCACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAAT  
AATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATCGGCCTGGCAGTGCCTTGGAGAAG  
GAGGTGGAGAGCATGGGGGCCCATCTTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTG  
TCCAAGGATCTGCCGAAAGCTGTGGAGCTCCTGGGTGACATTGTGCGAAGTGTAGTCTGGAAGACTCACAGATT  
GAGAAGGAACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTAC  
CTGCATGCCACAGCATTCCAGGGCACACCTCTAGCCCAGGCTGTGGAGGGGGCCAGTGAGAATGTCAGGAAGCTG  
TCTCGTGCAGACTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGTGGCAGCAGCTGGAGGA  
GTGGAGCACCAGCAACTGTTAGACCTCGCCAGAGCACCTCGGTGGCATCCCATGGACATATGCAGAGGACGCT  
GTGCCCACCTCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGTGATGATGCTCTACCTTTTGGCCAC  
GTGGCCATTGCAGTAGAGGGTCCTGGCTGGGCCAGCCCGACAGTGTGGCCTTGCAAGTGGCCAATGCCATCATC  
GGCCACTATGACTGCACTTATGGTGGTGGCGTGCACCTGTCCAGCCCACTGGCTTCAGGTGCTGTGGCCAACAAG  
CTATGCCAGAGTTTCCAGACCTTCAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGAC  
CGAATGAAAATCGATGACATGATGTTGCTCCTGCAAGGGCAGTGGATGCGCCTGTGTACCAGTGCCACGGAGAGT  
GAGGTGGCCCGGGGCAAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAG  
GACATCGGACGCAGCCTCCTGACCTATGGCCGCCGATCCCCCTGGCTGAATGGGAAAGCCGATTGCGGAGGTG  
GATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGCCAGCAGTGGCTGGATATGGCCCC  
ATTGAGCAGCTCCCAGACTACAACCGATCCGTAGCGGCATGTTCTGGCTGCGCTTCTAGCGGGGAAGCCTATGT  
AAGCAAGAGGGCAGGGCCGGGTTTGTGGTCCCCCCCCACCACAAACACAGCACTTCGGCTCCTCTAACCTGTG  
CCACAGGTGACCACCAATAAAATCCTCTGCTGAGA

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**FIGURE 1135**

MAASVVCRAATAGAQVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLLDNGLRVASEQSSQPTCTVGVWI  
DVGSRFETEKNNAGYFLEHLAFKGTKNRPGSALEKEVESMG AHLNAYSTREHTAYYIKALSKDLPKAVELLGDI  
VQNCSEDSQIEKERDVILREMQENDASMRDVVFNYLHATAFQGTPLAQAVEGPSSENVKLSRADLTEYLSHYK  
APRMVLAAGGVEHQQLDLAQKHLGGIPWTYAEDAVPTLTPCRFTGSEIRHRDDALPFAHVAIAVEGPGWASPD  
SVALQVANAIIGHYDCTYGGGVHLSSPLASGAVANKLCQSFQTF SICYAETGLLGAHFVCDRMKIDDMFVLQGG  
WMRLCTSATESEVARGKNILRNALVSHLDGTTTPVCEDIGRSLTYGRRIP LAEWESRIAEVDASVREICSKYIY  
DQCPAVAGYGPIEQLPDYNRIRSGMFWLRF

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**FIGURE 1136**

TCCGACTCATCCCGGCCCCGGGATGGCGTCCCCACGGGAATTGACACAGAACCCCTGAAGAAGATCTGGATGCC  
ATACAGCAATGGGCGGCCGCTCTGCACGCTTGCCAGCGCGGTGTGTGCATGACCAACTGCCAACTCTCATTGT  
CATGGTGGGCTGCCCGCCAGGGGCAAGACCTACATCTCCAAGAAGCTGACTCGATACTGAACTGGATTGGTGT  
GCCCCACTCGGGAGTTCAATGTTGGCCAGTATCGCCGGGACGTGGTCAAGACCTACAAATCTTTGAATTTTTTCT  
CCCCGACAATGAAGAGGGCCTGAAAATCAGGAAGCAGTGTGCCCTGGCAGCCCTCCGTGACGTCCGGCGGTTCCT  
TAGTGAGGAGGGGGGACATGTGGCGGTTTTTGATGCCACAAACACCACCCGAGAACGGAGAGCGACCATCTTTAA  
TTTTGGAGAACAGAATGGCTACAAGACCTTTTTTGTCGAGTCCATCTGTGTGGATCCTGAGGTCATAGCTGCCAA  
CATCGTGCAAGTGAACTGGGCAGCCCTGACTATGTCAACCGCGACAGTGATGAGGCTACGGAGGACTTCATGAG  
GCGCATTGAGTGCTATGAGAACTCCTACGAGTCGCTAGATGAGGACCTGGATAGGGACCTGTCTATATCAAGAT  
CATGGATGTGGGCCAGAGCTACGTGGTGAACCGTGTGGCTGACCACATCCAGAGCCGCATCGTATATTACCTCAT  
GAACATCCACGTGACCCCCGCTCCATCTACCTCTGCCGGCAGGGGAGAGCGAGCTCAACCTCAAGGGCCGGAT  
TGGCGGGGACCCAGGACTGTCCCCTCGGGGACGGGAGTTTGCCAAGAGTCTAGCCCAGTTCATCAGTGACCAAAA  
TATCAAGGATCTGAAGGTCTGGACAAGCCAGATGAAGAGGACAATCCAGACGGCTGAGGCACTGGGTGTGCCCTA  
TGAACAGTGGAAGGTCTCAACGAGATCGATGCGGGCGTCTGTGAGGAAATGACCTACGAGGAAATTCAGGATAA  
TTATCCACTGGAGTTGCGCCTGCGGGACCAGGACAAGTACCGGTACCGGTACCCTAAAGGGGAGTCTACGAGGA  
CCTGGTCCAGAGACTGGAGCCTGTATCATGAGCTGGAGAGGCAAGAGAATGTGCTGGTCTATCTGCCACCAGGC  
TGTGATGCGCTGCGTGTGGCCTACTTCTCGACAAGGCAGCAGAACAGCTGCCCTACCTCAAGTGTCCGCTGCA  
CACAGTCTGAAGCTGACTCCTGTGGCATATGGTTGTAAAGTGGAGTCCATATCTCTGAACGTGGCTGCTGTGAA  
CACGCACCGGGACAGGCCTCAGAACGTGGACATCTCAAGACCTCCAGAGGAAGCCCTTGTACGGTGCCTGCTCA  
CCAGTGACCATGTTTCATCCACTGTGACCACTAGGCAGGCACTGCTCTCTGCAGAGGGGGTCATTCCAGGCCCTCC  
AGTGTGTGTGATAGTCACCATGCCATGCAGGGATATTCTTGAAGCCACACATGGCTGGCGGAACCCAGAGCCCCC  
ACCCAGCCCCACCTGGCTCTTTGTTGACAGTCGGCGACAAGGTTGTGCGTGGCTCCTGACCTGCTGCTAAGAGTC  
ACTTGACCAGACTGCATCTGCATGGGCTGCGCGGAGGTTGCCAGCCCCAGTTTCTTCCGGCGCAGCTCTTAGGT  
GTTCACTCTCGCCAGCTCAGTTGGCTTTGTGAAGTGTGAAACCTACAATGTGAAAGGAAAGTGCTTGTGTGAT  
GTTCTACTGTGGCCCAGCTGCCAGCATGGACCTGGTGACTCTCCACAGGGCCTCTACCATCCTCTCTGTGGCC  
ACTTCCTGAGCCAGAGGCCAGGTCTTCATGGGGCCCTGAGCTTCTGCTGCCTCTGGTGAGAGGGAGAGCCCTTCC  
CATCCTTACCCACCAGGAAGTAGAGCCCCAACACAGCAGATGCTTCTGGGCAGCCACTGGCCAGGCCGTTGTA  
TCCATGTCAACCTTAGTTGTGGGCATTGAAAGCAATGCGCTTGCTTCAGCACATGGGATGCACAGAAACGT  
GAGGGCAGGGGGGAGTTGTGGTGGCCCCCTCCCCAGTTGTGCATGTACCCGGCTACTTAGGTATGCTTAGGGGAG  
CTGGTGGCCAGGGGTGCCCTTACGGCCTGCTCTCAGTGAAACCACTTCAAGACAGGGCAGGAAGTTACCTTC  
CTGGTGCACACACCGAAGTGCTCGAGGGAGAGGCTGCCGCCCTCTCCCTTCCCTGGCTGTGGACACTGGCAG  
CCAATGGGGAGGCGCCTCTCCCTGTTGCTGCCCGTGTCCACACAGGAATGTACACTGGTGGCAGAAACATGCA  
TTTGCCATAAATAATTAGAAAC

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**FIGURE 1137**

AGCAATGGCTGCCATCCGGAAGAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGACATGCTTGCTCATAGT  
CTTCAGCAAGGACCAGTTCAGAGGTGTATGTGCCACAGTGTGAGAACTATGTGGCAGATATCGAGGTGGA  
TGGAAAGCAGGTAGAGTTGGCTTTGTGGGACACAGCTGGGCAGGAAGATTATGATCGCCTGAGGCCCTCTCCTA  
CCCAGATACCGATGTTATACTGATGTGTTTTCCATCGACAGCCCTGATAGTTTAGAAAACATCCCAGAAAAGTG  
GACCCACAGAAGTCAAGCATTCTGTCCCAACGTGCCCATCATCCTGGTTGGGAATAAGAAGGATCTTCGGAATGA  
TGAGCACACAAGGCGGGAGCTAGCCAAGATGAAGCAGGAGCCGGTGAAACCTGAAGAAGGCAGAGATATGGCAAA  
CAGGATTGGCGCTTTTGGGTACATGGAGTGTTTCAGCAAAGACCAAAGATGGAGTGAGAGAGGTTTTTGAAATGGC  
TACGAGAGCTGCTCTGCAAGCTAGACGTGGGAAGAAAAAATCTGGGTGCCTTGTCTTGTAACCTTGCTGCAAG  
CACAGCCCTTATGCGGTTAATTTGAAGTGCTGTTTATTAATCTTAGTGTATGATTACTGGCCTTTTTTCATTTAT  
CTATAATTTACCTAAGATTACAAATCAGAAGTCATCTTGCTACCAGTATTTAGAAGCCAACCTATGATTATTAACG  
ATGTCCAACCCGCTCTGGCCACCAGGGTCCTTTTGACACTGCTCTAACAGCCCTCCTCTGCACTCCACCTGACA  
CACCAGGCGCTAATTCAGGAATTTCTTAACCTCTTGCTTCTTTCTAGAAAGAGAAACAGTTGGTAACCTTTTGTG  
AATTAGGCTGTAACCTACTTTATAACTAACATGTCCTGCCTATTATCTGTCAGCTGCAAGGTACTCTGGTGAGTCA  
CCACTTCAGGGCTTTACTCCGTAACAGATTTTGTTGGCATAGCTCTGGGGTGGGCAGTTTTTTGAAAATGGGCTC  
AACCAGAAAAGCCCAAGTTCATGCAGCTGTGGCAGAGTTACAGTTCGTGGTTTCATGTTAGTTACCTTATAGTT  
ACTGTGTAATTAGTGCCACTTAATGTATGTTACCAAAAATAAATATATCTACCCAGACTAGATGTAGTATTTTT  
TGTATAATTGGATTTCTAATACTGTCATCCTCAAAGAAAGTGATTGGTTTTTTAAAAAAGAAAGTGATTGG  
AAATAAAGTCAGATGGAAAATTCATTTTTTAAATTCCCGTTTTGTCACTTTTTCTGATAAAAGATGGCCATATTA  
CCCCTTTTCGGCCCCATGTATCTCAGTACCCCATGGAGCTGGGCTAAGTAAATAGGAATTGGTTTCACGCCTGAG  
GCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGCATCTGGCTCTAATTCACAGTGCTC  
TTTTCTCCTCACTGTATCCAGGTTCCCTCCCAGAGGAGCCACCAGTTCTCATGGGTGGCACTCAGTCTCTTCT  
CTCCAGCTGACTAACTTTTTTTCTGTACCAGTTAATTTTTTCCAACCTACTAATAGAATAAAGGCAGTTTTCT



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**FIGURE 1138**

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLRPLSYP  
DTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRND EHTRRELAKMKQEPVKPEEGRDMANR  
IGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLVL

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**FIGURE 1139**

TGAGCCCCAGCTAAGCGCTGCCCTTGAGTATGTGCGGAGTCACCCCTTGGACCCCATCGACACTGTGGACTTCGA  
GCGGGAATGTGGCGTGGGTGTCATTGTGACCCAGAGCAGATTGAGGAGGCTGTGGAGGCTGCTATTAACAGGCA  
CCGGCCCCAGCTCCTGGTGGAACGTTACCATTTCAACATGGGGCTGCTGATGGGAGAGGCTCGGGCTGTGCTGAA  
GTGGGCAGATGGCAAAATGATCAAGAATGAAGTGGACATGCAGGTCCTCCACCTTCTGGGCCCCAAGTTGGAGGC  
TGATCTGGAGAAGAAGTTCAAGGTGGCAAAAGCTCGGCTAGAAGAAACAGACCGGAGGACGGCAAAGGATGTGGT  
GGAGAATGGCGAGACTGCTGACCAGACCCTGTCTCTGATGGAGCAGCTCCGGGGGAGGCCCTTAAGTTCCACAA  
GCCTGGTGAGAACTACAAGACCCAGGCTATGTGGTCACTCCACACACCATGAATCTACTAAAGCAGCACCTGGA  
GATTACTGGTGGGCAGGTACGTACCCGGTTCCCGCCAGAACCCAATGGAATCCTGCATATTGGACATGCCAAAGC  
CATCAATTTCAACTTTGGCTATGCCAAGGCCAACAATGGCATCTGTTTTCTGCGTTTTGATGACACCAACCCTGA  
GAAGGAGGAAGCAAAGTTCTTCACGGCCATCTGTGACATGGTAGCCTGGCTAGGCTACACACCTTACAAAGTCAC  
ATATGCGTCTGACTATTTTGACCAGCTATATGCGTGGGCTGTGGAGCTCATCCGCAGGGGTCTGGCTTATGTGTG  
CCACCAGCGAGGAGAGGAGCTCAAAGGCCATAATACTCTGCCTTCACCCTGGAGAGACCGTCCCATGGAGGAGTC  
ACTGCTGCTCTTTGAGGCAATGCGCAAGSGCAAGTTTTAGAGGGCGAGGCCACACTACGGATGAAGCTGGTGTG  
GGAGGATGGCAAGATGGACCTGTAGCCTATCGAGTCAAGTATACACCACACCACCGCACAGGGGACAAATGGTG  
CATCTATCCACCTACGACTACACACACTGCCTCTGTGACTCCATCGAGCACATCACTCACTCACTCTGCACCAA  
GGAATTCCAGGCCCG

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**FIGURE 1140A**

GAAGGCAGTTTCCGGAGGGAAGGGGTAGGGTTGGGGTGGGGGCGCTCTCCGCCCGGTGTTGCGCTCCTTCCCAGA  
ATCCGCTCCGGCCTTTCCTTCTGCGCGATTCCCAACTTGTCTCAAAGTCGCTGGACTCTAAGCTGTGCGAGGG  
ACCGCTGGACAGACCTGGGAAGTACAGAGGGCCTGGAGGGAAACAGGCCAAAGACCCACAGGCAGAGTTGACAC  
GGAACCCCAAAGCAAGGAGGAGGGCTCGGGCCCGAGACCGTTACCTCCCTTATCCCTGTTCCCTCTTTCAGGA  
TGGAGCTGACCTCAAGGAAAGAGGGAGGGGACAGCCTCTGCCCTGGGAAGTTCGACTGGGCCTACTGCTAAGCG  
GTGAGAGGGCCTGGTGGGGGCTGGGGGTTGTGGAATGTGATGGTAGTCCCTGGGAGTTGCCCTTGGGGCACATGA  
GGTGGAGCCACTGGATAGGAAGTCCACGGAAGTACTGAGCTACTGTCCCAAGTGTGGCTGCCACACTGGCACA  
GGCCCTGCCCCGATGXX  
XXCACCACAGCGCGGGCAGCCTGGTGGCAGTCAG  
AGAATGGTATCCCTGCGGTACCATCCAGCTGGAGCTGGAGGCTGAGTTTCATTTCACACACCTCATTATGACCT  
TCAAGACATTTGCGCCTGTGCCATGTGTGGTGAACGCTCAGCAGACTTTGGCCGCACCTGGCATGTGTACCGAT  
ATTTCTCTATGACTGTGGGGCTGACTTCCAGGAGTCCCACTAGCACCCCAAGGCACCTGGGATGATGTAGTCT  
GTGAGTCCCGCTACTCAGAGATTGAGCCATCCACTGAAGGCGAGGTATCTATCGTGTGCTGGACCCTGCCATCC  
CTATCCAGACCCCTACAGCTCACGGATTGAGAACCTGTTGAAGATCACCACCTACGGGTGAACCTGACTCGTC  
TACACAGCTTGGGAGACAACCTACTCGACCCACGGAGGGAGATCCGAGAGAAGTACTACTATGCCCTCTATGAGC  
TGGTTGTACGTGGCAACTGCTTCTGCTACGGACACGCTCAGAGTGTGCACCCGCCCAAGGGCACCAGCCCATG  
CTGAGGGCATGGTGCACGGAGCTTGCATCTGCAACACAACACAGTGGCCTCAACTGCGAGCAGTGTGAGGATT  
TCTATCGTGACCTGCCCTGGCGTCCGGCTGAGGACGGCCATAGTCATGCCTGTAGGAAGTGTGAGTGCCATGGGC  
ACACCCACAGCTGCCACTTCGACATGGCCGTATACCTGGCATCTGGCAATGTGAGTGGAGGTGTGTGTGATGGAT  
GTCAGCATAACACAGCTGGGCGCCACTGTGAGCTGTGTCGGCCCTTCTTCTACCGTGACCCAACCAAGGACCTGC  
GGGATCCGGCTGTGTGCCGCTCCTGTGATTGTGACCCCATGGGTCTCAAGACGGTGGTTCGCTGTGATTCCCATG  
ATGACCTGCACITGGGACTGGTCTCCGGCCAGTGTGCTGCAAGAACATGTGGTGGGCACTCGCTGCCAGCAAT  
GCCGTGATGGCTTCTTTGGGCTCAGCATCAGTGACCGTCTGGGCTGCCGGCGTATGTCAATGTAATGCACGGGGC  
ACAGTGCTGGGAGCACTCCTTGTGACCCCAACAGTGGATCCTGTACTGCAACGCTCTAGTGACTGGACGTGGA  
TGTGACCGCTGCCTGCCTGGCCACTGGGGCTGAGCCACGACCTGCTCGGCTGCCGCCCTGTGACTGCGACGTG  
GGTGGTGTCTTGGATCCCCAGTGTGATGAGGGCAGAGTCAATGCCACTGCCGCCAGCACATGGTTGGCGCAGCG  
TGTGAGCAGGTGCAACCTGGCTACTTCCGGCCCTTCTGGACCACTAATTTGGGAGGCTGAGGACACCCGAGGG  
CAGGTGCTCGATGTGGTGGAGCGCTGGTGACCCCGGGGAACTCCATCCTGGACTGGCTCAGGCTGTCTGCGG  
CTACAGGAAGGTGAGACCTGGAGTTCTTGGTGGCTCTGTGCCGAAGGCTATGGACTATGACCTGCTGCTGCGC  
TTAGAGCCCCAGGTCCCTGAGCAATGGGCAGAGTTGGAAGTATTGTGCAGCGTCCAGGCGCTGTGCCCTGCCAC  
AGCCTGTGTGGGCATTTGGTGCCCAAGGATGATCGCATCAAGGGACTCTGCAACCACATGCCAGGTACTTGATA  
TTTCCTAATCCTGTCTGCCTTGAGCCTGGTATCTCTACAAGCTGCATCTGAAGCTGGTACGGACAGGGGGAAGT  
GCCCAGCTGAGACTCCCTACTCTGGACCTGGCCTGCTCATTGACTCGCTGGTGTGCTGCCCCGTGTCTGGTG  
CTAGAGATGTTTAGTGGGGGTGATGCTGCTGCCCTGGAGCGCCAGGCCACCTTTGAACGCTACCAATGCCATGAG  
GAGGGTCTGGTGCCAGCAAGACTTCTCCCTCTGAGGCTGCGCACCCCTCCTCATCAGCCTGTCCACCTCATC  
TACAATGGTGCCCTGCCATGTGAGTGAACCCCTCAAGGTTCACTGAGTCTGTGAGTGAACCCCTCATGGTGGTCAG  
TGCCTGTGCAAGCCTGGAGTGGTTGGGCGCCGCTGTGACCTCTGTGCCCTGGCTACTATGGCTTTGGCCCCACA  
GGCTGTCAAGCCTGCCAGTGCAGCCACGAGGGGGCACTCAGCAGTCTCTGTGAAAAGACCAGTGGGCAATGTCTC  
TGTGCAACTGGTGCCTTTGGGCTTCGCTGTGACCGCTGCCAGCGTGGCCAGTGGGGATTCCCTAGCTGCCGGCCA  
TGTGCTGTGAATGGGCATGCAGATGAGTGAACACCCACACAGGCGCTTGCCTGGGCTGCCGTGATCACACAGGG  
GGTGGAGCTGTGAAAGGTGCATTGCTGGTTTCCAGGGGACCCACGGCTGCCATATGGGGGCCAGTGCCGGCCC  
TGTCCCTGTCTGAAGGCCCTGGGAGCCAACGGCACTTTGCTACTTCTTGCCACCAGGATGAATATTCCAGCAG  
ATTGTGTGCCACTGCCGGGCAGGCTATACGGGGCTGCGATGTGAAGCTTGTGCCCTGGGCACCTTTGGGGACCCA  
TCAAGGCCAGGTGGCCGGTGCCAACTGTGTGAGTGCAGTGGGAACATTGACCAATGGATCCTGATGCCTGTGAC  
CCCCACACGGGGCAATGCCTGCGCTGTTTACACCACACAGAGGGTCCACACTGTGCCCACTGCAAGCCTGGCTTC  
CATGGGCAGGCTGCCCGACAGAGCTGTACCGCTGCACATGCAACCTGCTGGGCACAAATCCGCAGCAGTGCCCA  
TCTCCTGACCAAGTGCCTGTGATCCAAGCAGTGGGCGAGTGGCCATGCCTCCCCAATGTCCAGGGCCCTAGCTGT  
GACCGCTGTGCCCCCAACTTCTGGAACCTCACCAGTGGCCATGGTTGCCAGCCTTGTGCTGCCACCCAAGCCGG

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**FIGURE 1140B**

GCCAGAGGCCCCACCTGCAACGAGTTCACAGGGCAGTGCCACTGCCGTGCCGGCTTTGGAGGGCGGACTTGTTCT  
GAGTGCCAAGAGCTCCACTGGGGAGACCCTGGGTTGCAGTGCCATGCCTGTGATTGTGACTCTCGTGGAATAGAT  
ACACCTCAGTGTCACCGCTTCACAGGTCAGTGAGCTGCCGCCAGGGGTGTCTGGTGTGCGCTGTGACCAAGTGT  
GCCCCGTGGCTTCTCAGGAATCTTTCCTGCCTGCCATCCCTGCCATGCATGCTTCGGGGATTGGGACCGAGTGGTG  
CAGGACTTGGCAGCCCCGTACACAGCGCCTAGAGCAGCGGGCGCAGGAGTTGCAACAGACGGGTGTGCTGGGTGCC  
TTTGAGAGCAGCTTCTGGCACATGCAGGAGAAGCTGGGCATTGTGCAGGGCATCGTAGGTGCCCGCAACACCTCA  
GCCGCCTCCACTGCACAGCTTGTGGAGGCCACAGAGGAGCTGCCGCGTGAAATTGGGGAGGCCACTGAGCACCTG  
ACTCAGCTCGAGGCAGACCTGACAGATGTGCAAGATGAGAAGTTCAATGCCAACCATGCACTAAGTGGTCTGGAG  
CGAGATAGGCTTGCACCTTAATCTCACACTGCCGCGAGCTCGACCAGCATCTTGACTTGCTCAAACATTCAAACCTC  
CTGGGTGCCATATGACAGCATCCGGCATGCCCATAGCCAGTCTGCAGAGGCAGAACGTCGTGCCAATACCTCAGCC  
CTGGCAGTACCTAGCCCTGTGAGCAACTCGGCAAGTGCTCGGCATCGGACAGAGGCACTGATGGATGCTCAGAAG  
GAGGACTTCAACAGCAAACACATGGCCAACCAGCGGGCACTTGGCAAGCTCTCTGCCCATAACCCACACCCTGAGC  
CTGACAGACATAAATGAGCTGGTGTGTGGGGCACCAGGGGATGCACCCTGTGCTACAAGCCCTTGTGGGGGTGCC  
GGCTGTGAGATGAGGATGGGCAGCCGCGCTGTGGGGGCTCAGCTGCAATGGGGCAGCGGCTACAGCAGACCTA  
GCACTGGGCGGGCCCCGGCACACAGGCAGAGCTGCAGCGGGCACTGGCAGAAGGTGGTAGCATCCTCAGCAGA  
GTGGCTGAGACTCGTCGGCAGGCAAGCGAGGCACAGCAGCGGGCCAGGCAGCCCTGGACAAGGCTAATGCTTCC  
AGGGGACAGGTGGAACAGGCCAACAGGAAGTTCAAGAAGTTATCCAGAGTGTGAAGGACTTCTCAACCAGGAG  
GGGGCTGATCCTGATAGCATTGAAATGGTGGCCACACGGGTGCTAGAGCTCTCCATCCAGCTTCAGCTGAGCAG  
ATCCAGCACCTGGCGGGTGGCATTGCAGAGCGAGTCCGGAGCCTGGCAGATGTGGATGCGATCCTGGCACGTACT  
GTAGGAGATGTGCGTCTGTCGGAGCAGCTACTGCAGGATGCACGGCGGGCAAGGAGCTGGGCTGAGGATGAGAAA  
CAGAAGGCAGAGACAGTACAGGCAGCACTGGAGGAGGCCAGCGGGCACAGGGTATTGCCAGGGTGCCATCCGG  
GGGGCAGTGGCTGACACACGGGACACAGAGCAGACCCTGTACCAGGTACAGGAGAGGATGGCAGGTGCAGAGCGG  
GCACTGAGCTCTGCAGGTGAAAGGGCTCGGCAGTTGGATGCTCTCCTGGAGGCTCTGAAATTGAAACGGGCAGGA  
AATAGTCTGGCAGCCTCTACAGCAGAAGAAACGGCAGGCAGTGCCAGGGTCTGTGCCAGGAGGCTGAGCAGCTG  
CTACGCGGTCTCTGGGTGATCAGTACCAGACGGTGAAGGCCCTAGCTGAGCGCAAGGCCCAAGGTGTGCTGGCT  
GCACAGGCAAGGGCAGAACAACTGCGGGATGAGGCTCGGGACCTGTTGCAAGCCGCTCAGGACAAGCTGCAGCGG  
CTACAGGAATTGGAAGGCACCTATGAGGAAAATGAGCGGGCACTGGAGAGTAAGGCAGCCAGTTGGACGGGTTG  
GAGGCCAGGATGCGCAGCGTGCTTCAAGCCATCACTTGCAGGTGCAGATCTACAACACCTGCCAGTGACCCCTG  
CCCAAGGCCTACCCAGTTCCCTAGCACTGCCCCACATGCATGTCTGCCTATGCACTGAAGAGCTCTTGGCCCCGGC  
AGGGCCCCCAATAAACCAAGTGTGAACCCCC

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**FIGURE 1141**

AGGGCCGGGAGCCCCGCCAGAGCCCGACTTCAGCCCCAGCCAGATCCCGCGTCAACGGAGGCGGAACGGCGGACC  
CCGTACCCCTGCAGCATCGGAGCACCGGCGGGTGAAGGCAAGGTCCCTGGACTGGTCATATACCTCTTGTGGCCC  
TGGCAGAATCAAGATGAGGCCCTGTCATGCCTCCCCAGTGAGGCCCTACAGTCTGAGCAGACAGCATGGCCTGCCA  
CTGGCAGTGAACACCATGTCTGCAGGAGGTGGCCGGGCCCTTTGCTTGGCAAGTGTTCCCCCCCATGCCCACTTGC  
CGGGTCTATGGCACAGTGGCACACCAAGATGGGCACCTGCTGGTGTGGGGGGTGTGGCCGGGCTGGACTGCCC  
CTGGACACTGCTGAGACACTGGACATGGCCTCGCACACATGGCTGGCACTGGCACCCCTGCCCCTGCCCCTGGGCT  
GGTGCAGCTGCGGTAGTTCTGGGCAAGCAGGTGCTAGTGGTGGGTGGTGTGGATGAGGTCCAGAGCCCGGTAGCT  
GCTGTAGAGGCCCTTCCTGATGGATGAGGGCCGCTGGGAGCGTCGGGCCACCCCTCCCTCAAGCAGCCATGGGGGT  
GCAACTGTGGAGAGAGATGGTATGGTGTATGCTCTGGGGGAATGGGCCCTGACACGGCCCCCAGGCCAGGTA  
CGTGTGTATGACCCCGTGGGACTGCTGGCTTTTCGTACCCCTCCATGCCACACCCCTGCTATGGGGCTCCACC  
TTCTGCACGGGAACAAGATCTATGTCTGGGGGGCCGCCAGGGCAAGCTCCCGGTGACTGCTTTTGAAGCCTT  
GATCTGGAGGCCCTACATGGACCCGCATCCAAGCTACCCAGCCGTGCGGCCCTTTGCTGGCTGCGCCATGGCT  
GAAGGCAGCGTCTTTAGCCTGGGTGGCTGCAGCAGCCTGGGCCCCACAACCTTCTACTCTCGCCACACTTTGTC  
AACACTGTGGAGATGTTTGACCTGGAGCATGGGTCCCTGGACAAATTGCCCCGCAGCCTGCGCATGAGGGATAAG  
AGGGCAGACTTTGTGGTTGGGTCCCTTGGGGGCCACATTGTGGCCATTGGGGGCCTTGGAACCAGCCATGTCCT  
TTGGGCTCTGTGGAGAGCTTTAGCCTTGACCGCGCGCTGGGAGGCATTGCCTGCCATGCCCACTGCCCCTGTC  
TCCTGCTCTAGTCTGCAGGCTGGGCCCGGCTGTTTGTATTGGGGGTGTGGCCAGGGCCCCAGTCAAGCCGTG  
GAGGCACTGTGTCTGCGTGATGGGGTCTGAAGGCTTGGTGGGAGCTGTCCACTGGAGCAGCTATTGCCAGAGGC  
AGCTATTTCTATGGCTCCCTTTTGCTGCTGAGGACACTCACTGTGGCTCTGTGGGATGAGAGAGGCATGGGGGTGA  
GCACTTGAAACACTGCCCTTGGGGCCTTGGGTAGGGGAGCCTTTGTCTTTAGTGCAGGACACACATATGCTTACA  
CCTACCTTTATCACCATTTCGTTTCATGAATCATGCCTAGCTCCATCCTTGCCCTGGGACCTACTAGGCCTTCCATC  
CAACTGGGAAATGGGGAGAAGCAAAGCTGGCCTCATGCTCTTCAGGGTCAGTTCCTATCTGGAGTTGACCAGGCC  
TACCCAGTTGCCATTCCCTGAAAAATCTCAGCTGCCAGGCTGCCTTTAGGGTCCCTGCAGACCCAGGAGAGTTGA  
GAGGTGGGGGACACAGAGAGAATAGAGAGGATGTGGGAAGTCCAGAGGGCCGGAGCGCAGGAGTTCAAGTGGA  
GGAATGCTGGCTTTGAGCCCTCTACACTGCTGGTTGTATGACCTTGGACAAGTCACTTCACCTCTCTGTGCCTCA  
GCATCCTCATCTATAAATGGGGATCTCTGAAACCTTCCTACCCCTACCTACCTACAGGGCTGTTGTGAGGACCCA  
GGGAGTTTGGATGTGGAAGTAAAAGTGCTGCTAAACCTA

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**FIGURE 1142**

MSAGGGRAFAWQVFPPMPTCRVYGTVAHQDGHLLVLGGCGRAGLPD TAETLDMASHTWLALAPLPTARAGAAV  
VLGKQVLVVGGVDEVQSPVAAVEAFMDEGRWERRATLPQAAMGVATVERDGMVYALGGMGPD TAPQAQVRVYDP  
RRDCWLSLPSMPTPCYGASTFLHG NKIYVLGGRQGKLPVTAFEAFDLEARTWTRHPSLPSRRAFAGCAMAEGSVF  
SLGGLQQPGPHNFYSRPHFVNTVEMFDLEHG SWTKLPSLSLRMRDKRADFVVGSLGGHIVAIGGLGNQPCPLGSVE  
SFSLARRRWEALPAMPTARCSCSSLQAGPRLFVIGGVAQGQPSQAVEALCLRDGV

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**FIGURE 1143**

GGCGGCAGAGAGGAGACTATGGAACGTCAGGTGCTGCTGAGCGAGCCCCGAGGAGGCGGCGGCTCTGTATCGGGGC  
CTTAGCCGCCAGCCCGCGCTGAGCGCCGCTGCCTGGGCCCGGAGGTACCCACGCAGTACGGCGGCCAATACCGG  
ACGGTGCACACTGAGTGGACCCAGAGGGACCTGGAACGCATGGAGAACATTCGATTCTGCCGCCAATACCTGGTG  
TTCCATGACGGGGACTCAGTGGTGTTTGCAGGACCTGCAGGCAACAGTGTGGAGACCCGGGGGAACTGCTGAGC  
AGAGAGTCTCCTTCAGGCACCATGAAAGCTGTGCTGCGCAAGGCTGGAGGCACGGGCCCTGGGGAAGAGAAGCAG  
TTCCTGGAGGTCTGGGAGAAGAACCAGGAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAACATGGGCCTGTT  
TATGAGGATGACTGCTTTGGCTGCCTGTCTGGTGCCTCGGAGACACACTTGTGTATGTGGCAGAGAAGAAG  
CGCCCCAAGGCCGAGTCCCTTCTTCAGACCAAAGCCTTGGACGTCAGTGCCAGCGATGATGAGATAGCCAGGCTG  
AAGAAGCCAGACCAAGCCATCAAGGGGGATCAGTTTGTGTTTATGAAGACTGGGGAGAAAACATGGTTTCCAAA  
AGCATCCCTGTGCTCTGCGTGCTGGATGTGAGAGTGGCAACATCTCTGTGCTTGAGGGGGTCCCTGAGAATGTG  
TCCCCTGGACAGGCATTTTGGGCCCTGGAGATGCTGGTGTGGTGTGTTGTGGGCTGGTGGCATGAGCCCTTCCGG  
TTGGGCATCCGCTTTTGCACCAATCGCAGGTACGCCCTGTATTATGTGGACCTCATCGGGGGGAAGTGTGAGCTC  
CTCTCGGATGACTCCCTGGCTGTCTTCTCCCGGCTGAGCCCAGACCAATGTCGATTGTCTACCTGCAGTAC  
CCATCTCTGATCCCCATCACCAATGCAGCCAGCTGTGCCTGTATGACTGGTATACCAAGGTTACCTCAGTGGTG  
GTAGATGTTGTGCCTCGGCAGCTGGGAGAGAATCTCTGGGATCTACTGCAGCCTTCTGCCTTTGGGATGCTGG  
TCAGCTGACAGCCAGAGAGTGGTCTTGAAGTCCGCTCAGCGCAGCCGGCAGGACCTGTTGCTGTGGACACCCAA  
GTGGGCACCTGTGACCTCCCTCACAGCTGGAGGGTCAAGTGGGAGCTGGAAGTTGCTCACAATTGACCAGGACCTC  
ATGGTGGCACAGTTTTCCACACCCAGCCTACCTCCAACCCTGAAAGTTGGGTTCCCTGCCTTCTGCAGGGGAAGGAG  
CAGTCAGTGTGTTGGGTGTCCCTGGAGGAGGCCGAGCCATTCCCGACATCCACTGGGGCATCCGGGTGCTACAG  
CCACCCCCAGAGCAAGAGAATGTGCAGTATGCTGGCCTTGACTTTGAAGCAATCCTGCTGCAGCCTGGCAGCCCT  
CCAGATAAGACCCAAGTGCCCATGGTGGTCAATGCCCCACGGGGGGCCCCATTTCATCCTTTGTCACTGCCTGGATG  
CTGTTCCCAGCCATGCTTTGCAAGATGGGCTTTGCGGTACTACTAGTGAACATATCGTGGCTCCACGGGCTTTGGC  
CAGGACAGCATCCTCTCCCTCCCAGGCAATGTGGGCCACCAGGATGTGAAGGATGTCCAGTTTGCAGTGGAAACAG  
GTGCTCCAGGAGGAACACTTTGATGCAAGCCATGTGGCCCTTATGGGTGGTTCCTATGGTGGCTTTCATTTCCTGC  
CACTTGATTGGTCACTACCCAGAGACCTACAGGGCCTGCGTGGCCCGGAACCCCGTGATCAACATCGCCTCCATG  
TTGGGCTCCACTGACATCCCTGACTGGTGGTGGTGGAGGCTGGCTTTCCTTTTCAGCAGTGACTGCCTGCCAGAC  
CTCAGCGTGTGGGCTGAGATGCTGGACAAATCGCCCATCAGATACATCCCTCAGGTGAAGACACCACTGTTACTG  
ATGTTGGGCCAGGAGGACCGGCGTGTGCCCTTCAAGCAGGGCATGGAGTATTACCGTGCCCTCAAGACCCGGAAT  
GTGCTGTTCGGCTCCTGCTCTATCCAAAAGCACCCACGCATTATCAGAGGTGGAGGTGGAGTCAGACAGCTTC  
ATGAATGCTGTGCTCTGGCTACGCACACACTTGGGCAGCTGAAGCCCTGCCATTCTGCATGAGCTGATCAGCCTG  
TGCCACACTTCGCTCTTGAGGAGCTCAACGGTCTGGCAGGGCAGCAGGAGGCTTCTGGGCTCTGGACTCCACGG  
ATGCGTGGGCAGAGGAATGTGGGCTATGTAGTCATAATAAATTAGGAC

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**FIGURE 1144**

MERQVLLSEPEEAAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQRDLERMENIRFCRQYLVFHDGDS  
VVFAGPAGNSVETRGEILLSRESPSGTMKAVLRKAGGTGPGEKQFLEVWEKNRKLKSFNLSALEKHGPVYEDDCF  
GCLSWSHSETHLLYVAEKKRPKAESFFQTKALDVSASDDEIARLKKPDQAIKGDQFVFYEDWGENMVSKSIPVLC  
VLDVESGNISVLEGVPEENVSPGQAFWAPGDAGVVFVGWWHEPFRLGIRFCTNRRSALYYVDLIGGKCELLSDDSL  
AVSSPRLSPDQCRIVYLQYPSLIPHHQCSQLCLYDWYTKVTSVVVDVVPRLGENFSGIYCSLLPLGCWSADSQR  
VVFDSAQRSRQDLFAVDTQVGTVTSLTAGSGGSGWKLLTIDQDLMVAQFSTPSLPPTLKVGFLPSAGKEQSVLWV  
SLEEAEPIDIIHWGIRVLQPPPEQENVQYAGLDFAILLQPGSPDKTQVPMVMPHGGPHSSFTAWMLFPAML  
CKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQDVKDQFAVEQVLQEEHFDASHVALMGGSHGGFISCHLIGQY  
PETYRACVARNPVINIASMLGSTDIPDWCVEAGFPFSSDCLPDLVSWAEMLDKSPIRYIPQVKTPLLMLGQED  
RRVPFKQGMEYYRALKTRNVPVRLLLYPKSTHALSEVEVESDSFMNAVLWLRTHLGS



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**FIGURE 1145**

TACTCCCGGAGTCACTCATCCCTTAAGCAAGCAGGGTGGGGTTAGGTGCGCGTGCGCGGTTTTAATACTCCTCCC  
CGAACTGCCAACTCTTCACGCACGCGAAGTAGGCCCCACCCTGGCTGGGTTTACGCGTGCGCACTAACGGGCCTG  
GTCCCGGAAGACCACACGCGTGCGTGGTGGGGACTACGGTGACAGTACCCCGGGTGGGGCGAGGGCCAGTCA**TGG**  
CGGAGTCCTGGTCTGGGCAGGCCCTTGCAAGGCTCTGCCGGCCACGGTGCTGGGCGCGCTGGGCAGCGAGTTCTTGC  
GGGAGTGGGAGGCGCAGGACATGCGCGTGACCCTCTTCAAGCTGCTGCTGCTGTGGTTGGTGTAAAGTCTCCTGG  
GCATCCAGCTGGCGTGGGGGTTCTACGGGAATACAGTGACCGGGTTGTATCACCGTCCAGGTCTGGGTGGTCAGA  
ATGGATCCACGCTGATGGCTCCACGCATTTCCCTTCGTGGGAAATGGCAGCAAACGAACCTCTCAAAACCCACA  
GAGA**ATAA**GGGAAGGCAGCAGAGGGTCTCCAAGGGCATCACTGGGTCTGCTGGCTTCTACACTGGGTCTGTCTAC  
TCCCCAGACCTCAGGGACAACCTGCCGGGGGTTCAGGGTTGGTAGCAGGGAGTACCCAGTGCTACAGGGCTGGGC  
CTCTTCTGCCTCTTAAGCCTGCTCCCTACCCAGGCAGTGGGCAAGTGAAGAGTTTGCCTGTACTCTTATCTGGG  
TGCCTTAAGGAGAGAGATTGTGTTCTTCTCTCTCAGGGGTGATAACTCAGGAAGCCTCTGGGTGGGAAGACCA  
TCAGTTCCTTTTGCTTAGGTTTCTTTTCTGTCCCTCTTCCATCCCCAAGATGTGACCCCATAAAAATTTTCTCT  
GAGTTGGCCAGGCATGGTGGCTCACGCTGTAAATCCCAACACTTTGGGAGGCTGAGGCAGGCAGATCACGAGGT  
AGGAGTTCGAGACCAGCCTGACCAACATGGTGAAAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGTGTG  
GTGGCACACACCAGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGATTGCTTGAACCTGGGAGGCAGAGGT  
GCAGTGAGCCAAGATTGCGCCGTTGTACTCCAGCCTGGGCAACAGAGCAAGACCCATCTCAAAAAAAAAATTTTT  
TTCTTGAGAGGAAGCCTGAGGTTGACCAGCTCTGGGGTTGTAAAGGCAGGTCTGTTTTCTCCTAGGCCCTGAGTT  
TTCTGAATCTCTGGTTTTGCTTTGTTGGAAGGAGCCAGGGAATCCTGACCTGAGCCAGACCTTAAGCTCTATGG  
TTATTTAGCTGGCCATTAGGTATAAGGCAGGGTGGTGTACCTGCTGGCACTATCCAGATGGAGGCACCAAACAC  
CCACATACCTGGCCCAACCAGACTTCTCCCGTGAGCCAGGCAAAAGGAAATTGTCATCTGCCAACTGTCTACTCA  
TATTCCTCTCAGTCCTTCTTGGGGGTAAGCTGATTACCTGAAGGACAGCTGAACCCCTGGGGTAGCCTCCTATCC  
ACCACTGCTTAAGTGCTATAGGGAATGTGGGTCTGCACCTTGTCCCTCATAGGATGGTACCAAGCATTTAGTGC  
ACAGTGGCCCCATCATAGCCTGCAGCCTCATCATTTCCCATCTGGACCTGGTACAAATGCACGTCACAGGCTCAG  
CTCCTCCCCACTAGCATCTTCTCTACCTTCAAGAACCAGGCAGCCCTGCCATGTCAATAGGCCAGGGGAGTTT  
CCAAAGATGTGGGTGGCAAATGCCCCCTATAGAAACACCAAGTACCTGAAAGCACTGTAGCCCTGGACCTGCCTCCT  
TCCCTCGGGGCCATACTTCTGTTTCCATCTGCTGGGCCACCAGCCACTTTAGTGACCCCTGCCTACTTCTTCTCT  
GTGGATATCATACTTCCATCTGGCTGCCTTTGCTTAAGCCATCTTTGTGGTAGAGGGGCCCTGGAATTGCAGCT  
GTACTGAGGATGATGTTATTACAGCCCTGGCCACCCACTAATACTACTGCACAGAGTCAGGATCTCACATTT  
CACCCCAGGCTCAACTGAGGATGTGGCTTATTAAACACGGAAGTGC

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**FIGURE 1146**

MAESWSGQALQALPATVLGALGSEFLREWEAQDMRVTLFKLLLLWLVLSSLGIQLAWGFYGNVTGTGLYHRPGLGG  
QNGSTPDGSTHFPSWEMAANEPLKTHRE

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**FIGURE 1147**

CCCCAGTGCTTCCCGCAGAGGGCTGGTGGTGGGAGCGGAGTGGGTCCGGCGGGGGCCGAGCCGGGCCGTGGGCCGT  
GTGGGGGCCGGCGGGCGGCCGGGCCGGGACGGCGGGATGGGCTGCACCGTGAGCGCCGAGGACAAGGCGGGCGG  
CCGAGCGCTCTAAGATGATCGACAAGAACCTGCCGGGAGGACGGAGAGAAGGCGGGCGGGGAGGTGAAGTTGCTGC  
TGTTGGGTGCTGGGGAGTCAGGGAAGAGCACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCCG  
AGGAGGAATGCCGCGAGTACCGGGCGGTTGTCTACAGCAACACCATCCAGTCCATCATGGCCATTGTCAAAGCCA  
TGGGCAACCTGCAGATCGACTTTGCCGACCCCTCCAGAGCGGACGACGCCAGGCAGCTATTTGCACTGTCCTGCA  
CCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGTCATCCGGAGGCTCTGGGCTGACCATGGTGTGC  
AGGCCTGCTTTGGCCGCTCAAGGGAATACCAGCTCAACGACTCAGCTGCCTACTACCTGAACGACCTGGAGCGTA  
TTGCACAGAGTGACTACATCCCCACACAGCAAGATGTGCTACGGACCCGCGTAAAGACCACGGGGATCGTGGAGA  
CACACTTCACCTTCAAGGACCTACACTTCAAGATGTTTGATGTGGGTGGTCAGCGGTCTGAGCGGAAGAAGTGGA  
TCCACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGCTAGCTGAGG  
ACGAGGAGATGAACCGCATGCATGAGAGCATGAAGCTATTGATAGCATCTGCAACAACAAGTGGTTCACAGACA  
CGTCCATCATCTCTTCTCCTCAACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGTCCCCTGACCATCTGCT  
TCCCTGAGTACACAGGGGCCAACAATATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGAGGACCTGAATA  
AGCGCAAAGACACCAAGGAGATCTACACGCACTTCACGTGCGCCACCGACACCAAGAACGTGCAGTTTCGTGTTG  
ACGCCGTCACCGATGTATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTCTGAGGGGCAGCGGGCCTGGCG  
GGATGGGCCACCGCGACTTTGTACCCCCAACCCCTGAGGAAGATGGGGGCAAGAAGATCACGCTCCCCGCGTG  
TTCCCCGCGCGCTTTTCTCCTCTTTCTCTCTTTGTTCTCAGCTCCCCCTGTCCCCTCAGCTCCAGACGTAGGGG  
AGGGGTGGCCACAGGCCCTCCCTGTTTGAAGCCTGCCCTTGCTGAGATGCTGGTAATGGCCATGGTACCCCTTC  
TGGGCATCTGTTCTGGTTTTTAACCATTTGCTTGTCTGTGATGAGGGGAGGGGGCACATGCTGAGTCTCCCAA  
GGCTGCGTCTGGAGGGGCCCTGCTTCTCCAGCCTGGACCCCCAGCTTTGCCCAACACCAGCCCCTGCCCCAGCC  
CAAGTCCAAATGTTTACAGGGAGCCTCCTGCCAGTCCCCAACCCAGCCGCTCGGAGGCCCCAAAGGAAAAAG  
CACAAGAAGCGTGAGACGCCACCATTCTTGAAACCACAGTCC

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**FIGURE 1148**

MGCTVSAEDKAAAERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVQMKI IHEDGYSEEECRQYRAVVYS  
NTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDL SGVIRRLWADHGVQACFGRSREYQLN  
DSAAYYLNDLERIAQSDYIPTQQDVLRTVRKTTGIVETHFTFKDLHFKMFDVGGQRSEKRWIHC FEGVTAIIFC  
VALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWFDTDSIILFLNKKDLFEKITHSPLTICFPEYTGANKYDEA  
ASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDAVTDV I I KNNLKDCGLF

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**FIGURE 1149**

TCTGTGATTGTGGCCAGGCGGGGCACCTCGGAGGGGAGGGTTCCGGAAGTGAATGCGACCCCCCAGCCTCTTTC  
CCCTAGGGGCTGTAATCTGATCCCTGGGGACTCCCCCCTAGCCTCCCGCCCTCGCCCTCACTGCTGACTCCTCT  
TCCAGATCCTGGGGCAGAGTCCAGGGCAGCTCAAGGCTCCTCCACACACACACCCGCTGAACCCCTGAGCACCCCTG  
AGCTGCTGAGATGGGGCGGGCGGGGCTGCCGCCGTGATCCCGGGCCTGGCCCTGCTCTGGGCAGTGGGGCTGGG  
GAGTGCCGCCCCAGCCCCCAGCCTTCGGCTCTCCTTCCAAGAGCTCCAGGCCTGGCATGGTCTCCAGACTTT  
CAGCCTGGAGCGAACCTGCTGCTACAGGCCTTGCTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGTGCCGA  
GAACCATGTGGCTCCCTCAACCTGGACAACATCAGCAAGCGGGCCAAAGAAGCTGGCCTGGCCGGCCCCCTGTGGA  
ATGGCGAGAGGAGTGCAACTGGGCAGGGAAGGACATTGGTACTGAGTGCAATGAACCTTCGTGAAGTTGCTGCATGC  
CTACAACCGCACCCATTTGCTGGCCTGTGGCACGGGAGCCTTCCACCCAACCTGTGCCTTTGTGGAAGTGGGCCA  
CCGGGCAGAGGAGCCCGTCCCTCCGGCTGGACCCAGGAAGGATAGAGGATGGCAAGGGGAAGAGTCTTATGACCC  
CAGGCATCGGGCTGCCTCCGTGCTGGTGGGGGAGGAGCTATACTCAGGGGTGGCAGCAGACCTCATGGGACGAGA  
CTTTACCATCTTTCGAGCCTAGGGCAACGTCCAAGTCTCCGAACAGAGCCACACGACTCCCGCTGGCTCAATGA  
GCCCAAGTTTGTCAAGGTATTTTGGATCCCGGAGAGCGAGAACCCAGACGACGACAAAATCTACTTCTTCTTTCG  
TGAGACGGCGGTAGAGGCGGGCGCCGGCACTGGGACGCCTGTCCGTGTCCCGCTTGGCCAGATCTGCCGGAACGA  
CGTGGGCGGCCAGCGCAGCCTGGTCAACAAGTGGACGACGTTTCTGAAGGCGCGGCTGGTGTGCTCGGTGCCGG  
CGTCGAGGGCGACACCCACTTCGATCAGCTCCAGGATGTGTTTCTGTTGTCTCGCGGGACCAACGGACCCCGCT  
GCTCTATGCGCTCTTCTCCACGTCCAGCAGCATCTTCCAGGGCTCTGCGGTGTGCGTGTACAGCATGAACGACGT  
GCCCGGGGCTTCTTGGGACCCCTTTCACACAAGGAGGGGCCCATGCACCAAGTGGGTGTACATACAGGGTTCGCT  
CCCTACCCGCGGCCAGGCATGTGCCCCAGCAAGACCTTTGGCACCTTCAGTTCCACCAAGGACTTCCAGACGA  
TGTCATCCAGTTTGC CGGAACACCCCTCATGTACAACTCTGTCTGCCCACTGGGGGGCGCCCTCTTTTCTCT  
ACAAAGTTGGAGCCAAATTACACCTTCACTCAAAATTGCCGCGGACCGGTTGCAGCCGCTGACGGACACTATGACGT  
CCTCTTCATTGGCACAGACGTTGGCACGGTGTGAAGGTGATCTCGGTCCCAAGGGCAGTAGGCCCAGCGCAGA  
GGGGCTGCTCCTGGAGGAGCTGCACGTGTTGAGGACTCGGCCGCTGTACACAGCATGCAAATTTCTTCCAAGAG  
GCACCAAGTGTACGTAGCTCGCGGAGCGCGGTGGCCAGATCGCGTGTGACCCGCTGCGCTGCCACGGCCCGCT  
CTGCACCGAATGCTGTCTGGCGCGTGACCCCTACTGCGCCTGGGACGGGGTGGCTGCACGCGCTTCCAGCCAG  
TGCCAAGAGGCGGTTCCGGCGGCAAGACGTAAGGAATGGCGACCCAGCACGTTGTGCTCCGGAGACTCGTCTCG  
TCCCGCGCTGCTGGAACACAAGGTGTTCCGGCGTGGAGGGCAGCAGCGCCTTCTGGAGTGTGAGCCCCGCTCGCT  
GCAGGCGCGCGTGGAGTGGACTTTCCAGCGCGCAGGGGTGACAGCCACACCCAGGTGCTGGCAGAGGAGCGCAC  
CGAGCGCACCGCCCGGGGACTACTGCTGCGCAGGCTGCGCGCCCGGGACTCGGGCGTGTACTTGTGCGCCGCGT  
CGAGCAGGGCTTTACGCAACCGCTGCGTGCCTGTGCTGCAGTGTGAGTGCTACGCAGGCCGAACGACTGGC  
GCGGGCCGAGGAGGTGCGCCCGCGCGCCCGGGCCCCAACTCTGGTACCGGGACTTTCTGCAGCTGGTGGGA  
GCCGGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCGCCGCGAGCCTGCGCTGAGTCACTGCCCTGGA  
GTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCTGAGCCTCGCGCTGAGCGGGGGCGCGCAGCGCAAC  
GCACTGGTGAACAGACTGTCCCCACGCCGGAACCAAGCAGGAGACGACAGGCGAGAGAGGCCAGACAGACCC  
TGAAAAGAAGGACGGGTGGGGCCGGGCACATTGGGGGTACCGGCCGATGGAGACACCAACCGACAGGCCCTGG  
CTGAGGGCAGCTGCGCGGGCTTATTTATTAACAGGATAACCTTGAATGTAGCAGCCCCGGGAGGGCGGCACAGG  
TCGGGCGCAGGATTAGCCGGAGGGAAGGGACGGGAAGCCGAGCTCCAGAGCAACGACAGGGCCGAGGAGGTG  
CCTGGAGTGCCACCCCTGGGAGACAGACCCACCTCCTTGGGTAGTGAGCAGTGAGCAGAAAGCTGTGAACAGGC  
TGGGCTGCTGGAGGTGGGGCGAGGCAGGCCGACTGTACTAAAGTAACGCAATAAACGCATTATCAGCCA

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**FIGURE 1150**

MGRAGAAVIPGLALLWAVGLGSAAPSPPRRLRSLFQELQAWHGLQTFSLERTCCYQALLVDEERGRLFVGAENHV  
ASLNLDNISKRAKKLAWPAPVEWREECNWAGKDIGTECMNFVKLLHAYNRTHLLACGTGAFHPTCAFVEVGHRAE  
EPVLRLDPGRIEDGKGKSPYDPRHRAASVLVGEELYSGVAADLMGRDFTIFRSLGQRFSLRTEPHDSRWLNPKF  
VKVFWIPESENPDDDKIYFFFRETAVEAAPALGRLSVSRVGQICRNDVGGQSRSLVNKWTTFLLKARLVCSVPGVGEG  
DTHFDQLQDVFLSSRDHRTPLLYAVFSTSSSIFQGSAVCVYSMNDVRRFLGPFHKEGPMHQWVSQGRVPYP  
RPGMCPSKTFGTFSSTKDFPDDVIQFARNHPLMYSVLPTGGRPLFLQVGANYTFTQIAADRVAADGHYDVLFI  
GTDVGTVLKVISVPKGSRPSAEGLLLEELHVFEDSAAVTSMQISSKRHQLYVASRSAVAQIALHRCAAHGRVCTE  
CCLARDPYCAWDGVACTRFQPSAKRRFRQQDVRNGDPSTLCSGDSSRPALLEHKVFGVEGSSAFLECEPRSLQAR  
VEWTFQRAGVTAHTQVLAERTERTARGLLRLRRRDSGVYLCAAVEQGFTQPLRRLSLHVLSTQAEERLARA  
EAAPAAPPKPLWYRDFLQLVEPGGGGSANSLRMCRPQPALQSLPLESRRKGRNRRTHAPEPRAERGPRRSATHW

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**FIGURE 1151**

ATGGGCCCCAAAAATCTTGGCGAAGTCACTTTTTCCACTGCCTGAGGTTTGGCTGTTGCTCCTGTTATCCCAA  
GCTCTAAGCCCTTCCCATGGTCCCCAGACCCAGGCAGGGGTAGGTCTCGTCTGGAGTGTCCCCTGCCAAGTGCC  
CTGAGAAGCCAGTCTGCTTGGTGCTCCACTGAGGGACGCTTCGGAGTTAACCACCGTGCACTTGTTCCCGACG  
CGGGGCTGGGGCGCGCGCAGGGCATTGTGGGTGCATAGTTTCAGCCAGCGCGTCTCGTCTGGCTGCTAGCCGCCGTCGC  
CTGCGCGCTCAGGCCTCTGGGATTAGTAGTTTTAGCCTCGTGGATGGCGGGGCGCCTCGCGAAGATGGTGGCGCG  
CGTGGCGTGTGGCTCCCGTCTGTGGCCAAGTCTCAGCGCAGCGCACCGGCCGGCGTCTCGTTGGCCTGGAGCCC  
ACACCCACCGGGTCCCTGACCCCGCGCCCCCGCGCCCGGTTCCCGGCATGCCTCGCGCCCGTAAGGGCAACACG  
CTCCGGAAGGGTGGTTCAGCGCCGTGGAGGAGGTGCCCGGAGCAGTGCCCAAGCTGACTCGGGTTCCAGTGACGAT  
GAGGCAGCCAGTGAGGCCCCGAGCACCGCCAGTGAATGCCCCAGCCTTCTCAGCACCACTGCAGAGGACAGCCTT  
GGGGGGGATGTCTGTGGATGAGCAGGGCCAGCAGGAAGACCTTGAGGAAAAGCTGAAGGAGTATGTGGACTGTCTC  
ACAGACAAGAGTGCCAAGACCCGGCAGGGTGCTCTTGAGAGCCTGCGCCTGGCCCTAGCGTCCCGCCTACTCCCC  
GACTTCTTGTCTGGAGCGCCCGCTCAGCTAGCCGATGCCCTGGAAAAGTGCCTCAAGAAAGGGAAGGGCGAGGAA  
CAAGCCCTGGCTGCTGCTGTGCTAGGCCTGCTCTGCGTGCAGCTGGGCCCTGGACCTAAGGGTGAGGAGCTGTTT  
CACAGCCTGCAGCCTCTGCTGGTCTCTGTGCTCAGTGACAGCACAGCTAGCCCTGCTGCCCGGCTCCACTGTGCT  
TCTGCCCTTGGCCTGGGCTGCTACGTGGCTGCCGCTGACATCCAGGACCTGGTCTCTTGCCCTTGCCCTGCTTAGAA  
AGTGTTCCTCAGCCGGTTCTATGGCTTGGGGGGCAGCTCCACAAGTCTGTGGTTCTTGCCAGCCTGCACGGCCTG  
CTCTCTGCTGCCCTGCAGGCCTGGGCATTGCTGCTCACCATCTGCCCTAGCACCCAAATCAGCCACATCCTTGAC  
AGGCAGCTGCCCCGGCTGCCCCAGCTCTTGTCAGTGAAGTGTGAACCTGCGGATCGCTGCCGGTGAAACCAT  
GCACTGCTCTTTGAGCTTGCCCGGGACCTTGAGGAGGAGTTTGTTCAGAGGACATGGAGGCCCTCTGCAGTGTC  
CTGCGCACTCTGGCCACTGACAGTAACAAGTACCGTGCCAAGGCTGATCGTTCGGCGCCAGCGCTCTACTTTCCGC  
GCCGTGCTGCACTCCGTGGAGGGCGGTGAATGCCAAGAAGAGATAGTGCGCTTCGGCTTTGAGGTGCTCTACATG  
GACAGCTGGGCTCGGCACCGGATCTACGCTGCCTTCAAGGAAGTGTGGGTTTCGGCATGCACCACCACCTCCAG  
AACAATGAGCTACTCCGTGACATCTTTGGCCTGGGCCCTGTGCTGTTGCTGGATGCCACTGCCCTGAAGGCCTGC  
AAGGTTCCACGCTTTGAGAAGCACCTGTACAATGCTGCTGCCCTTCAAAGCCCGGACCAAGGCTCGAAGCCGTGTG  
CGGGACAAGCGGGCAGACATCCTGTGAAGCAGGACCTGCTGAAGAGGAGACTTCTATGCCCTTGGTCCGTATTT  
TTAACAGAAGACAGTGCAACAAGTGGTCTCCACCAGTATTTGTCACTTTATTTTTTTAATGACAAAACAAAAA  
CAGACATGGGGTGGGTAGCTGGGGGCCCGGACACTTGGGACCCTGACCCCTTTGTCCCTGCACTCAGCCCTGTGG  
CCCCTTCCTGTCTGTCTCAGGCCAGGCTAAATATGTGCCCTTCCTCAGGGCTGTGGGGCAGGCACTAGGGGGCCT  
TTCCCTTCCTTTCTCTCAGGCCTTGCTCCCCAGGATGACCCACTCTTAGGGGGGTGGTGGCATCTGGACAA  
ATGCCACCACAGCAGGTGGGGTGGCAAAGCTACCTGGAATGGATTGTGTGCTGATTTTAAGGATTATTACAGA  
TAATTAAACAGAACGGTCAGCCTTCAAAAAAAAAAAAAAAAAAAAAATTCCTGCGGCCGCAAGGC

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**FIGURE 1152**

MGPKKSWRSHFFPLPEVWLLLLLSQALSPSHGPQTQAGVGLVWSVPLPSALRSQSCLGAPLRDASELTTVHLFPT  
RGWGARRALWVHSSASASSAASRRRLRAQASGISSFSLVDDGAPREDGGARGVWLPSSGQVSAQRTGRRLVGLEP  
TPTGSLTPRPVRPVPGMPRARKGNTLRKGGQRRGGGARSSAQADSGSSDDEAASEARSTASECPSLLSTTAEDSL  
GGDVVDEQGGQEDLEEKLKEYVDCLTDKSAKTRQGALESRLALASRLLPDFLLERRLTADALEKCLKKGKGE  
QALAAAVLGLLCVQLGPGPKGEELFHSLOPLLVSVLSDSTASPAARLHCASALGLGCVAAADIQDLVSCLACLE  
SVFSRFYGLGGSSTSPVVPASLHGLLSAALQAWALLLTICPSTQISHILDRQLPRLPQLLSSESVNLRIAAGETI  
ALLFELARDLEEEFVYEDMEALCSVLRTLATDSNKYRAKADRRRQRSTFRVLHSVEGGECEEEIVRFGEVLYM  
DSWARHRIYAAFKEVLGSGMHHHLQNNELLRDIFGLGPVLLLDATAALKACKVPRFEKHLYNAAAFKARTKARSV  
RDKRADIL



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**FIGURE 1153**

TGCGGCCGCGTTTCCGTGGAGACAGCCGAGCCTGCGGAAGGCGGCGGGCGGCACCTGCGATCAGCGGCTGGGG  
CAGGTTATGGTAGTGCGGACTGCGGTGTGAGCAGAGCGGCCACGGGGCCCGCCATGCGCCGGCGGCCCTGACATG

GGCGCCAGCGGGTCCAAAGCTCGGGGCCTGTGGCCCTTCGCCTCGGCGGCCGGAGGCGGGCGGCTCAGAGGCAGCA  
GGAGCTGAGCAAGCTTTGGTGCGGCCTCGGGGCCGAGCTGTGCCCCCTTCGTATTCACGCGCCGCGGCTCTATG  
TTCTATGATGAGGATGGGGATCTGGCTCACGAGTTCTATGAGGAGACAATCGTCACCAAGAACGGGCAGAAGCGG  
GCCAAGCTGAGGCGAGTGACATAAGAATCTGATTCTCAGGGCATCGTGAAGCTGGATCACCCCGCATCCACGTG  
GATTTCCCTGTGATCCTCTATGAGGTGTGACCCTGGGAGGTGGCAGACAGAAGCACCCCTGCCCCGGCAAGAAA  
CTCCCAGGCTCAATCAAGGTGTGGCTTCCATTGAGGAGCCCAGGCTGGGGCCACAACCCTGAATAAACTCTGTTG  
GCCCCATAACCTTCAGCTGTGAGCGGGTCGGTCCCACAGTATTGGTTGGGTGTTGGTTTGTGTGGACAAGAGGT  
GGTTGGTGGGTGGTGAAGGCTAATGGCAGAGTTAGCACCCCACTCTCCCAAGCCACCCCTGCAAGCAGCATAGCA  
GGGCATATACCAGTCAGGAATGCCGTTACCTGGTTCCCTTGCTGGTCTGCTTTCTTCCAAGTTTGCTGGGGCC  
TAGCCCTGCTAGAGGCTACAGCACTTTACAAGCAAGGTATGCTTTCTTCCAGCCCTAGGCTGTGGGCACTGTAT  
ACAAGTAGGAACCTTCCTTTCCCTTCACTTCCCTTTTAACCCCTAGTCAGAGCATTTCAGCCGTTTGCTACCTCGAT  
TCCTCCTGTGTTGGACAGAGGCTGGGGGCAGTGCCAGCCTGATTCTTCCGACCTACCTGCCATTTGTTCCCGCCT  
TCAGATGGATGGACAGTTTGCTGGCTATTGATAGGAGTGGGGACTGGGTGGGGGCTTCTCCCTCTACCCAGGGCT  
GGGCTGATCCCCCTACTGCAACTAACTGTTGCCCCCAACCCCGAACCCCAAGTTGAGGAGTTGAGAGAGTGCAG  
GCTGGGGTCAGGACAGGCTGCGGATGCTTGTGCCTATGGGGAGTTACTCCAACCCACCTATTCTGTCTAATCTCC  
ATGGCCTTTGCACCAAATCCTCCACCCCTCCAATTGGGAGGGGACTGTTACCCACCTTGTGGTAAGGGACAACACC  
CTAAGGCTGGTGCCAGTAGTTATGAGTAGCCTACCACCCCTCCCTTACAGTAACCCCAACCCCTCAGGATCAG  
TCAAGGGAAAGCACTAGAACCCCTGGGTAGGGAAAGAAAGGAGGGAAAAACCATAAAAGGAATACTTATAATGTG  
AAGGTTTGTAAATAGTCCATGATGATGTCGTGGCAGAGTCTGATTTCTATATAGAGGTGACTTTTTTTTTTAAGTA  
CTGTGCAAGCTCTGTGCTTCTATAATGTGGGAAATGGCTTGGGGAGGATGGCCCTAGCTTAGGAAGACTGTTGT  
GTTATTTGTTCAATTTCAATAAAATGATTTGTAGATCCTGC

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**FIGURE 1154**

MGASGSKARGLWPFASAAGGGGSEAAGAEQALVRPRGRAVPPFVFTRRGSMFYDEDGDLAHEFYEETIVTKNGQK  
RAKLRRVHKNLIPQGIVKLDHPRIHVDFPVILYEV

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**FIGURE 1155**

GGCACGAGGCTGCGGCCGCCAGCTCCCGCGACCGCCTCTCCTGCCCCCTCGCCGGTACCTCAGCAAGGTGCCACTA  
GAAGCGCCAGGCTGGGGCCGCCTCTGAGCGCCCCGCGGGGGCCATGGATGGTGAAACAGCAGAGGAGCAGGGGGG  
CCCTGTGCCCCGCCAGTTGCACCCGGCGGACCCGGCTTGGGCGGTGCTCCGGGGGGCGGGCGGAGCCCAAGAA  
GTACGCAGTGACCGACGACTACCAGTTGTCCAAGCAGGTGCTGGGCCTGGGTGTGAACGGCAAAGTGCTGGAGTG  
CTTCCATCGGGCGCACTGGACAGAAAGTGTGCCCTGAAGCTCCTGTATGACAGCCCCAAGGCCCGGCAGGAGGTAGA  
CCATCACTGGCAGGCTTCTGGCGGCCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAA  
GCGCTGTCTCCTCATCATCATGGAATGCATGGAAGGTGGTGAGTTGTTTCAGCAGGATTCAGGAGCGTGGCGACCA  
GGCTTTCACTGAGAGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAA  
CATTGCCCACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAAGACGCAGTGCTTAAGCTCAC  
CGATTTTGGCTTGTCTAAGGAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTATTATGTGGCCCC  
TGAGGTCTGGGTCCAGAGAAGTATGACAAGTCATGTGACATGTGGTCCCTGGGTGTATCATGTACATCCTCCT  
TTGTGGCTTCCACCCCTTCTACTCCAACACGGGCCAGGCCATCTCCCCGGGGATGAAGAGGAGGATTGCGCTGGG  
CCAGTACGGCTTCCCAATCCTGAGTGGTCAGAAGTCTCTGAGGATGCCAAGCAGCTGATCCGCTCCTGTTGAA  
GACAGACCCACAGAGAGGCTGACCATCACTCAGTTCATGAACCACCCCTGGATCAACCAATCGATGGTAGTGCC  
ACAGACCCCACTCCACACGGCCCCGAGTGCTGCAGGAGGACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGAC  
CAGTGCCTTGGCCACTATGCGGGTAGACTACGACCAGGTGAAGATCAAGGACCTGAAGACCTCTAACAACCGGCT  
CCTCAACAAGAGGAGAAAAAAGCAGGCGAGCAGCTCCTCTGCCTCACAGGGCTGCAACAACCACTAGTCTATGGG  
GCCTTGGAGGAGCCTGGCCCTCTCAGCCTGCATAACAGACTGAAATGTGCTCAGGCCCTGGCCAGGAGGGCCCAGG  
GTCAATTCTTTTAAACAAAAGGATTATTTTGTGTGTTTAAATTTGTCACTCGGAACCTCAGGATGGAGGACCCCTGA  
CCCTAAGCCTCCTTCAGATCTCTGGCCCAGGCTCAAGCCCTAGAGATGGGCAGGGCCTAGGGGCTGGGAGCTGCC  
TGCTGCCATAGCAGCACCTTTAGCTAGGTTGGCCGAGTGAGGCCTCTGTGCTGTCTGCCCTGCTGCATGGCCT  
TAGCTTTCTAGGCCACTGGGAGTTGTGGCTGGGCTTCCCATCTTCCACAGAGACATCTCCCTGTGGGATGGGCAG  
ATGGGCCTGGCCTTGAGAAAGGCATTGGCCATTGGTTGCCATGGTGACCAGGGACCACGTTGCTGCCTGTGAATG  
CTGAGTGAGCGAGTAAGGGAGGAGGGGCGATTGAGGGTTACCTCTGCCTTGGGGAGGCTGATTTCTCACACACT  
GGCTGGCCCTCTCATTCTCACTCCTCCTTGGGCCCTGAGGCTGCTGGATCCGGTCTGCCTGCCCTCCCTGTGCAGT  
CCAGCCCTGCCTTGCTGCAGCCCCAGCCCAGATGGCACTCAGCGCTCTCCCTGAGGGAGTCCCTGGGCCTAGCC  
ATCCCTCACTATTCCCGACCCAAAGGGTGACTTTTCATCTGAACCTAAGGTGGGAGATATTTTAACTTTTTTC  
CACTTTGGAAAATGTCACTGTGACAAAAGCCAGCATACTTTCCCTGCACCCATCTGCTCACCAGATCTCAGGCAG  
GAAAGCCCTCTCTGTTGAAGTCAGGGGCTATCTTTTGGTATACTTGTGTGAAAGTGGCTGGTTGGGAGCAGAGC  
TAAGTGGCTTCCCATTAACCTGAGGTCTCTTTCTTTACTCTGGGTGAGACCTGAGGTTGGGGAAGGCGACTGAGC  
CATGCTCAGAATGTCTGGTCTGGCTTGGGCTGAGTAGGGCAGAGAGGGCCTTTCATGGCTGATCAGAGCTTAC  
CAGCCCCACCCACCATGGTAGCCTTAGGGTGCTGAGTGCCCTGATACTGCCTGACAAGTGCCTGACACGCAGCCT  
AGTTCCTTCTGGCCCTCTCTCACTGGCTGGGAAACCCCTAGACCATGTGAGATAGGACAACACTGCTGGGTTTT  
ACATCCAGATAGTAATAAACACCATTTTCATCATT

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**FIGURE 1156**

MDGETAEEQGGPVPPPVPAPGGPGLGGAPGGRREPKKYAVTDDYQLSKQVLGLGVNGKVLECFHRRTGQKCALKLL  
YDSPKARQEVDDHHWQASGGPHIVCILDVYENMHGKRCLLIIMECMEGGELFSRIQERGDQAFTEREAAEIMRDI  
GTAIQFLHSHNIAHRDVKPENLLYTSKEKDAVLKLTDFGFAKETTQNALQTPCYTPYYVAPEVLGPEKYDKSCDM  
WSLGVIMYILLCGFPPFYSENTGQAISPGMKRRIRLGQYGFPNPEWSEVSEDAKQLIRLLLKTDPETERLTITQFMN  
HPWINQSMVVPQTPFLHTARVLQEDKDHWDEVKEEMTSALATMRVDYDQVKIKDLKTSNNRLLNKRRKKQAGSSA  
SQGCNNQ

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**FIGURE 1157**

GGCGGCATTTCCTGGTGTCTGAGCCTGGCGCGGAGGCTATGGGCAGCCAGGAGGTGCTGGGCCACGCGGCCCGGC  
TGGCCTCCTCCGGTCTCCTCCTGCAGGTGTTGTTTCGGTTGATCACCTTTGTCTTGAATGCATTTATTCTTCGCT  
TCCTGTCAAAGGAAATCGTTGGCGTAGTAAATGTAAGACTAACGCTGCTTTACTCAACCACCCTCTTCCTGGCCA  
GAGAGGCCTTCCGCAGAGCATGTCTCAGTGGGGGCACCCAGCGAGACTGGAGCCAGACCCTCAACCTGCTGTGGC  
TAACAGTCCCCCTGGGTGTGTTTTGGTCCTTATTCCTGGGCTGGATCTGGTTGCAGCTGCTTGAAGTGCCTGATC  
CTAATGTTGTCCCTCACTATGCAACTGGAGTGGTGTGTTTGGTCTCTCGGCAGTGGTGGAGCTTCTAGGAGAGC  
CCTTTTGGGTCTTGGCACAAGCACATATGTTTGTGAAGCTCAAGGTGATTGCAGAGAGCCTGTGGTAATTCTTA  
AGAGCGTTCCTGACAGCTTTTCTCGTGTGTGGTTGCCTCACTGGGGATTGTACATTTTCTCTTTGGCCCAGCTTT  
TCTATACCACAGTTCTGGTGTCTGCTATGTTATTTATTTACAAAGTTACTGGGTTCCCCAGAATCAACCAAGC  
TTCAAACCTCTTCCTGTCTCCAGAATAACAGATCTGTTACCCAATATTACAAGAAATGGAGCGTTTATAAACTGGA  
AAGAGGCTAAACTGACTTGGAGTTTTTTCAAACAGTCTTTCTTGAAACAGATTTTGACAGAAGGCGAGCGATATG  
TGATGACATTTTTGAATGTATTGAACTTTGGTGTATCAGGGTGTGTATGATATAGTGAATAATCTTGGCTCCCTTG  
TGGCCAGATTAATTTTCCAGCCAATAGAGGAAAGTTTTTATATATTTTTTGCTAAGGTGCTGGAGAGGGGAAAGG  
ATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTGCAGTCTTGGAGTCCCTGCTCAAGCTGGCCCTGC  
TGGCCGGCCTGACCATCACTGTTTTTGGCTTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGC  
TTAGCTCAGGATCCGGTCCCTGTTTTGCTGCGTTCTACTGTCTCTATGTTCTCCTGCTTGCCATCAATGGAGTGA  
CAGAGTGTTCACATTTGCTGCCATGAGCAAAGAGGAGGTGACAGGTACAATTTTGATGCTGGCCCTGTCTCT  
CCTCATTCCTGGTGTTATCCTATCTCTTGACCCGTTGGTGTGGCAGCGTGGGCTTCATCTTGGCCAACCTGCTTTA  
ACATGGGCATTTCGGATCACGCAGAGCCTTTGCTTCATCCACCGCTACTACCGAAGGAGCCCCACAGGCCCTTG  
CTGGCCTGCACCTATCGCCAGTCCTGCTCGGGACATTTGCCCTCAGTGGTGGGGTTACTGCTGTTTCGGAGGTAT  
TCCTCTGCTGTGAGCAGGGCTGGCCAGCCAGACTGGCACACATTGCTGTGGGGGCCTTCTGTCTGGGAGCAACTC  
TCGGGACAGCATTTCCTCACAGAGACCAAGCTGATCCATTTCTCAGGACTCAGTTAGGTGTGCCAGACGCACTG  
ACAAAATGACATGACTTCAGGGAAGCCTGGACACCCGAGGCACCTGGACCAGCTATGGGTAGTTCTGTGGGTGGA  
ACACATTCTGTGTAAGAGCCCCACTGAGGGCTCTGCAGCGGAGTGACAGCAACCCCAAAGATGAGGCACCAGAGA  
GTGCCACTGCAIGAGACACCTGTGACCATTGCAAGTCTGAAATGCGGGGGGGAGTTTCATTTTTAAGTGAAGAC  
CAAAAGCCCTTTAAAAATAATAGTTTTTTATCATTTTATAGTAAAAAAAAAAAAAAAAAGGGCGGACCATCAATCAG  
CACGCAGCAAGAAAAGCACATTCATACTAGACTATACAAAAAAAAAAAAAAAA

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**FIGURE 1158**

MGSQEVLGHAARLASSGLLLQVLFRLITFVLNAFILRFLSKEIVGVNVRLTLLYSTTLFLAREAFRRACLSGGT  
QRDWSQTLNLLWLTVP LGVFWSLFLGWIWLQLLEVDPNVVPHYATGVVLFGLSAVVELLGEPFWVLAQAHMFVK  
LKVIAESLSVILKSVLTAFLVLWLPHWGLYIFSLAQLFYTTVLVLCYVIYFTKLLGSPESTKLQTLPVSRITDLL  
PNITRNGAFINWKEAKLTWSFFKQSFLKQILTEGERYVMTFLNVLNFGDQGVYDIVNNLGSILVARLIFQPIEESF  
YIFFAKVLERGKDATLQKQEDVAVAAVLESLLKLALLAGLTITVFGFAYSQALDIYGGTMLSSGSGPVLLRSY  
CLYVLLLAINGVTECF TFAAMSKEEVDRYNFVMLALSSSFLVLSYLLTRWCGSVGFILANCFNMGIRITQSLCFI  
HRYRRSPHRPLAGLHLSPVLLGTFALSGGVTAVSEVFLCCEQGWPARLAHIAVGAFCLGATLGTAFLTETKLIH  
FLRTQLGVPRRTDKMT

**FIGURE 1159**

[illegible]

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**FIGURE 1160**

MESYHKPDQQKLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHTMRYKSQDPRNPHNDRFVLSK  
GHAAPILYAVWAEAGFLAEAE LLNLRKISSDLDGHPVPKQAF TDVATGSLGQGLGAACGMAYTGKYFDKASYRVY  
CLLGDGELSEGSVWEAMAFASIYKLDNLVAILDINRLGQSDPAPLQHQM DIYQKRCEAFGWHAIIVDGHSVEELC  
KAFGQAKHQPTAIIAKTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQSKKKILATPPQEDAPSVDIAN  
IRMPSLPSYKVGDKIATR KAYGQALAKLGHASDRIIALDGD TKNSTFSEIFKKEHPDRFIECYIAEQNMVSI AVG  
CATRNRTVPFCSTFAAFFTRA FDQIRMAAISESNINLCGSHCGV SIGEDGPSQMALEDLAMFRSVPTSTVFYPSD  
GVATEKAVELAANTKGICFIRTSR PENAI IYNNNEDFQVGQAKVVLKSKDDQVTVIGAGVTLHEALAAAELLKKE  
KINIRVLDPPFTIKPLDRKLILDSARATKGRILTVEDHYE GGI GEAVSSAVVGEPGITVTHLAVNRVPRSGKPAE  
LLKMFGIDRDAIAQAVRGLITKA



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**FIGURE 1161**

AGAAGCCTCCTGGCAGACACTGGAGCCACGATGAAGCCCCAAGGCCTGTCCGTACCTGCAGCAAAGTTCTCGTC  
CTGCTTTTCACTGCTGGCCATCCACCAGACTACTACTGCCGAAAAGAATGGCATCGACATCTACAGCCTCACCCTG  
GACTCCAGGGTCTCATCCCGATTGCCCCACACGGTCGTACCAGCCGAGTGGTCAATAGGGCCAATACTGTGCAG  
GAGGCCACCTTCCAGATGGAGCTGCCCAAGAAAGCCTTCATCACCAACTTCTCCATGATCATCGATGGCATGACC  
TACCCAGGGATCATCAAGGAGAAGGCTGAAGCCCAGGCACAGTACAGCGCAGCAGTGGCCAAGGGAAAGAGCGCT  
GGCCTCGTCAAGGCCACCGGGAGAAACATGGAGCAGTTCCAGGTGTCGGTCAGTGTGGCTCCCAATGCCAAGATC  
ACCTTTGAGCTGGTCTATGAGGAGCTGCTCAAGCGCGTTTGGGGGTGTACGAGCTGCTGCTGAAAGTGCGGCCC  
CAGCAGCTGGTCAAGCACCTGCAGATGGACATTACATCTTCGAGCCCCAGGGCATCAGCTTTCTGGAGACAGAG  
AGCACCTTCATGACCAACCAGCTGGTAGACGCCCCACACCTGGCAGAATAAGACCAAGGCTCACATCCGGTTC  
AAGCCAACACTTTCCCAGCAGCAAAAAGTCCCCAGAGCAGCAAGAAACAGTCTGGACGGCAACCTCATTATCCGC  
TATGATGTGGACCGGGCCATCTCCGGGGGCTCCATTGAGATCGAGAACGGCTACTTTGTACACTACTTTGCCCCC  
GAGGGCCTAACCACAATGCCCAAGAAATGTGGTCTTTGTCAATTGACAAGAGCGGCTCCATGAGTGGCAGGAAATC  
CAGCAGACCCGGGAAGCCCTAATCAAGATCCTGGATGACCTCAGCCCCAGAGACCAGTTCAACCTCATCGTCTTC  
AGTACAGAAGCAACTCAGTGGAGGCCATCACTGGTGCCAGCCTCAGCCGAGAACGTGAACAAGGCCAGGAGCTTT  
GCTGCGGGCATCCAGGCCCTGGGAGGGACCAACATCAATGATGCAATGCTGATGGCTGTGCAGTTGCTGGACAGC  
AGCAACCAGGAGGAGCGGCTGCCGAAGGGAGTGTCTACTCATCATCTCTGCTCACCAGTGGCGACCCCACTGTG  
GGGGAGACTAACCCAGGAGCATCCAGAATAACGTGCGGGAAGCTGTAAGTGGCCGGTACAGCCTCTTCTGCCTG  
GGCTTCGGTTTCGACGTACAGCTATGCCTTCCTGGAGAAGCTGGCACTGGACAATGGCGGCCTGGCCCGCGCATC  
CATGAGGACTCAGACTCTGCCCTGCAGCTCCAGGACTTCTACCAGGAAGTGGCCAACCCACTGCTGACAGCAGTG  
ACCTTCGAGTACCCAAGCAATGCCGTGGAGGAGGTCACTCAGAACAACCTTCGGCTCCTCTTCAAGGGCTCAGAG  
ATGGTGGTGGCTGGGAAGCTCCAGGACCGGGGGCTGATGTGCTCACAGCCACAGTCAGTGGGAAGCTGCCTACA  
CAGAACATCACTTTCCAAACGGAGTCCAGTGTGGCAGAGCAGGAGGCGGAGTTCAGAGCCCCAAGTATATCTTC  
CACAACCTCATGGAGAGGCTCTGGGCATACCTGACTATCCAGCAGCTGCTGGAGCAAACCTGTCTCCGCATCCGAT  
GCTGATCAGCAGGCCCTCCGGAACCAAGCGCTGAATTTATCACTTGCTACAGCTTTGTACAGCCTCTCACATCT  
ATGGTAGTCACCAAACCCGATGACCAAGAGCAGTCTCAAGTTGCTGAGAAGCCCATGGAAGGCGAAAGTAGAAAC  
AGGAATGTCCACTCAGGTTCCACTTCTTCAAATATTATCTCCAGGGAGCAAAAATACCAAACCCAGAGGCTTCC  
TTTTCTCCAAGAAGAGGATGGAATAGACAAGCTGGAGCTGCTGGCTCCCGGATGAATTCAGACCTGGGGTTCTC  
AGCTCCAGGCAACTTGGACTCCCAGGACCTCCTGATGTTCTTGACCATGCTGCTTACCACCCCTTCCGCGTCTG  
GCCATCTTGCTGCTTCAGCACCACCCAGCCACCTCAAATCCTGATCCAGCTGTGTCTCGTGTGATGAATATGAAA  
ATCGAAGAAACAACCATGACAACCCAAACCCAGCCCCATACAGGCTCCCTCTGCCATCCTGCCACTGCCTGGG  
CAGAGTGTGGAGCGGCTCTGTGTGGACCCAGACACCGCCAGGGGCCAGTGAACCTGCTCTCAGACCTGAGCAA  
GGGGTTGAGGTGACTGGCCAGTATGAGAGGGAGAAGGCTGGGTTCTCATGGATCGAAGTGACCTTCAAGAACCCC  
CTGGTATGGGTTACGCATCCCTGAACACGTGGTGGTGAATCGGAACCGAAGAAGCTCTGCGTACAAGTGAAG  
GAGACGCTATTCTCAGTGAATGCCCCGCTGAAGATGACCATGGACAAGACGGGTCTCCTGCTGCTCAGTGACCCA  
GACAAAGTGACCATCGGCTGTTGTTCTGGGATGGCCGTGGGGAGGGGCTCCGGCTCCTTCTGCGTGACACTGAC  
CGCTTCTCCAGCCACGTGGAGGGACCTTGGCCAGTTTACCAGGAGGTGCTCTGGGGATCTCCAGCAGCATCA  
GATGACGGCAGACGCACGCTGAGGGTTCAGGGCAATGACCACTCTGCCACCAGAGAGCGCAGGCTGGATTACCAG  
GAGGGGCCCCGGGAGTGGAGATTCTCTGCTGGTCTGTGGAGCTGTAGTTCTGATGGAAGGAGCTGTGCCACCC  
TGTACACTTGCTTCCCCCTGCAACTGCAGGGCCGCTTCTGGGGCCTGGACCACCATGGGGAGGAAGAGTCCCAC  
TCATTACAAATAAGAAAGGTGGTGTGAGCCTGGG

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**FIGURE 1162**

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACTTTACG  
GCGGCAGCGTAAGTGGTGACGCTCGTCAGTGGCTTCAGTTACACGTGGCGCCAGCGGAGGCAGGTTGATGTGT  
TTGTGCTTCTTCTACAGCCAATATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGC  
GGTATAAAATCCAAAAAAGGTTGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCGGGGTACACAAGA  
AGCCTAGGAAAGACCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGA  
AACAGAGGCTTGAAGAACTAAACAGCAGCAGAACTTGACAGGCAGAAGGAACTAGAAAAGAAAAGAAAACCTG  
AACTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAGGAGTTTGGGCTTTGCAAACTGAGAACA  
AAGCCAAGTCGGGCAAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCCTCCGATG  
TTGTCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGTCCTCAGGTAGAAGAGGCCATTGTCCAGA  
GTGGACAGAAAAAGCTGGTACTTATATTAAATAAATCAGATCTGGTACCAAAGGAGAATTTGGAGAGCTGGCTAA  
ATTATTTGAAGAAAGATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCA  
AGCGTGTGAAGGCAAAGAAGAATGCTGCTCCATTGAGAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGGAAC  
TTCTTGGAGGTTTTTCAGGAACTTGCGAGCAAAGCCATTCCGGTTGGAGTAATTGGTTTTCCCAAATGTGGGAAAA  
GCAGCATTATCAATAGCTTAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGC  
AAGTTGTCCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCT  
CTGCGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCC  
AGGCTGATGCTCGACAGGTAGTACTGAAATATACTGTCCAGGCTACAGGAATTCTCTGGAATTTTTTACTGTGC  
TTGCTCAGAGAAGAGGTATGCACCAAAAAGGTGGAATCCCAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTG  
AGTGGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTTGGACTCCTCCTCCATATTTAATGAGA  
GTATTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAACTGGAAAAGACAATGCACAGAGCATAAGAGCCA  
TCAAGGGCCCTCATTGGCCAATAGCATCCITTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGG  
ACATACATGAAGAATTGCCAAAACGGAAAGAAAGGAAGCAGGAGAGAGGGAGGATGACAAAGACAGTGACCAGG  
AAACTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGTGTCAGAAGAGACAGGGGAGGCACTGTCTG  
AGGAGACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGGATAAAATCATTGAAGAGGATGATGCTTATG  
ACTTCAGTACAGATTATGTGTAACAGAACAATGGCTTTTTATGATTTTTTTTTTAACATTTTAAGCAGACTGCTA  
AACTGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAATTTTGTGAATATGTATTATATTAACCAGGC  
AACTTGAATCCCTAAATTCTGTAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAA  
AGAAGATACCTATTG

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## FIGURE 1163A

ACTCTGTCCTGGACAGCGTGCCCAACCAGCCATGGCGGGGCCCCGGGGCCTCCTCCCACTCTGCCTCCTGGCCTTC  
TGCCTGGCAGGCTTCAGCTTCGTACGGGGGAGGTGCTGTTCAAAGGCTGTGATGTGAAAACACGTTTGTCACT  
CATGTACCTTCGACCTCGTGCGCGGCCATCAAGAAGCAGACGTGTCCTCAGGCTGGCTGCGGGAGCTCCCGGAT  
CAGATAACCCAGGACTGCCGCTACGAAGTACAGCTGGGGGGCTCTATGGTGTCCATGAGCGGCTGCAGACGGAAG  
TGCCGAAGCAAGTGGTGCAGAAGGCCTGCTGCCCTGGCTACTGGGGTTCCCGGTGCCATGAATGCCCTGGGGG  
GCTGAGACCCCATGCAATGGCCACGGGACCTGCTTGATGGCATGGACAGGAATGGGACCTGTGTGTGCCAGGAA  
AACTTCCGCGGCTCAGCCTGCCAGGAGTGCCAAGACCCCAACCGGTTCCGGGCCTGACTGCCAATCGGTGTGCAGC  
TGTGTGCACGGAGTGTGCAACCATGGGCCACGTGGGGATGGAAGCTGCCTGTGCTTTGCTGGATACACTGGCCCC  
CACTGTGATCAAGAGCTGCCCGTCTGCCAGGAGCTGCCTGTCCCCAGAACACCCAGTGCTCCGCAGAGGCTCCC  
AGCTGCAGGTGCCCGGCTACACACAGCAGGGCAGTGAATGCCGAGCCCCAACCCCTGCTGGCCATCACCC  
TGCTCACTGCTGGCCAGTGTCTCGGTGAGCCCCAAGGGGAGGCTCAGTGTCACTGCCCTGAGAACTACCATGGC  
GATGGGATGGTGTCTGCCCCAAGGACCCATGCACTGACAACCTTGGTGGCTGCCCCAGCAACTCTACTTTGTGT  
GTGTACAGAAGCCGGGCCAGGCCTTCTGCACCTGCCGGCCAGGCCTGGTCAGCATCAACAGCAACGCTTCTGCG  
GGCTGCTTCGCTTCTGCTCCCCCTTCTCCTGCGACCGGTCTGCCACTTGCCAGGTGACCGCTGATGGGAAGACC  
AGCTGTGTGTGCAGGAAAGCGAGGTGGGGGATGGGCGTGCTGCTACGGACACCTGCTCCACGAGGTGCAGAA  
GCCACGCAGACAGGCCGGGTGTTCTGTCAGCTGAGGGTCCCGTGCCATGATGGACAGGGCTGCCGGGAATC  
CTTACCACAGCGGGCCCTTTCACCGTGCTGGTGCCATCCGTCTCCTCCTTCTCCTCCAGGACCATGAATGCATCC  
CTTGCCAGCAGCTCTGTAGACAGCACATCATCGAGGGCAGCACATCCTGGAGGACACAAGGACCCAAACAA  
CGAAGGTGGTGGACGCTGGCCGGCAGGAGATCACCGTCACCTTTAACCAATTCAGGAAATACTCCTACAAGTAC  
AAAGACCAGCCCCAGCAGACGTTCAACATCTACAAGGCCAACACATAGCAGCTAATGGCGCTTTCACGTTGGT  
ACTGGCCTGCGGTGGCAGGCCCCCTCTGGGACCCCTGGGGATCCCAAGAGAACTATCGGACAGATCCTCGCCTCT  
ACCGAGGCCTTCAGCCGCTTTGAAACCATCCTGGAGAACTGTGGGCTGCCCTCCATCCTGGACGGACCTGGGGCC  
TTCACAGTCTTTGCCCCAAGCAATGAGGCTGTGGACAGCTTGGGTGACGGCCGCTGATCTACCTCTTCACAGCG  
GGTCTCTCTAAACTGCAGGAGTTGGTGCAGTACCACATCTACAACCACGGCCAGCTGACCGTTGAGAAGCTCATC  
TCCAAGGTGCGGATCCTCACCATGGCGAACAGGTCTGGCTGTGAACATTTCTGAGGAGGGGCGCATCCTGCTG  
GGACCCGAGGGGGTCCCGCTGCAGAGGGTAGACGTGATGGCCGCAATGGTGTGATCCACATGCTGGACGGCATC  
CTGCTGCCCCGACCATCCTGCCCATCCTGCCAAGCACTGCAGCGAGGAGCAGCAAGATTGTGGCGGGCTCC  
TGTGTGGACTGCCAAGCCCTGAACACCAGCACGTGTCCCCCAACAGTGTGAAGCTGGACATCTTCCCCAAGGAG  
TGTGTCTACATCCATGACCCAACGGGGCTCAATGTGCTAAAGAAGGGCTGTGCCAGCTACTGCAACCAACCATC  
ATGGAACAAGGCTGCTGCAAAGGTTTTTTCGGGCTGACTGCACGAGTGTCTGCTTCCAGACTACAAGGGCATC  
TATGGCAAAGGCAATTGCAGTGTGGGATCCAGGGCAATGGGGCTGCCTCTGCTTCCAGACTACAAGGGCATC  
GCCTGCCACATCTGCTCGAACCCAACAAGCATGGAGAGCAATGCCAGGAAGACTGCGGCTGTGTCCATGGTCTC  
TGCGACAACCGCCAGGACGTGGGGGGGTGTGCCAGCAGGGCACGTGTGCCCTGGCTTCAGTGCCGGTCTGTGC  
AACGAGTCCATGGGGGACTGTGGGGCCACAGGGCTGGCCAGCACTGCCACCTGCATGCCCGCTGTGTAGCCAG  
GAGGGTGTGGCAGATGTGCTGTCTTGTATGGCTTTGAGGGTGTGGCTTCTCCTGCACACCTAGCAACCCCTGC  
TCCACCCCGACCGTGGAGGCTGCTCAGAGAACTGTGAGTGTGTCTCCCTGGGTCCCTGGGCACCCACCACTGCACA  
TGCCACAAAGGCTGGAGTGGGGATGGCCGCGTCTGTGTGGCTATTGACGAGTGTGAGCTGGACATGAGAGGTGGC  
TGCCACACCGATGCCCTCTGCAGCTATGTGGGCCCCGGCAGAGCCGATGCACCTGCAAGCTGGGCTTTGCCGGG  
GATGGCTACCACTGCAGCCCCATCGACCCCTGCCGGGCAGGCAATGGCGGCTGCCACGGCCTGGCCACCTGCCGG  
CGAGTGGGGGGAGGTGAGCGGCTGTGCAGCTGCCCCCTGGCTTTGGGGGTGATGGCTTCAGCTGTTATGGAGAC  
ATCTTCCGGGAGCTGGAGGCAATGCCCACTTCTCCTATCTTACCAATGGCTTAAGAGTGGCGGCATCACGCTT  
CCTGCCGACCGCCGAGTCACAGCCCTGGTGCCCTCCGAGGCTGCAGTCCGTCAGCTGAGCCCCGAGGACCGAGCT  
TTCTGGCTGCAGCAAGGACGCTGCCGAACCTGGTCAGGGCCCATTTTCTCCAGGGTGCCCTCTTCGAGGAGGAG  
CTGGCCCCGGCTGGGTGGGCAGGAAGTGCCACCCCTGAACCCCAACACAGCTGGGAGATTGCGAACATTAGTGGG  
AGGGTCTGGGTGCAGAATGCCAGCGTGATGTGGCTGACCTCCTTGCCACCAACGGTGTCTACACATCCTCAGC  
CAGGTCTTACTGCCCCCGAGGGGATGTGCCCGGTGGGCAGGGGTTGCTGCAGCAGCTGGACTGGTGCCTGCC  
TTCAGCCTCTTCCGGGAATTGCTGCAGCACCATGGGTGGTGCCCCAGATTGAGGCTGCCACTGCCTACACCATC  
TTTGTGCCCAACCGCTCCCTGGAGGCCAGGGCAACAGCAGTCACCTGGACGCAGACACAGTGCGGCACCAT

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**FIGURE 1163B**

GTGGTCCTGGGGGAGGCCCTCTCCATGGAACCCCTGCGGAAGGGTGGACACCGCAACTCCCTCCTGGGCCCTGCC  
CACTGGATCGTCTTCTACAACCACAGTGGCCAGCCTGAGGTGAACCATGTGCCACTGGAAGGCCCATGCTGGAG  
GCCCCCTGGCCGCTCGCTGATTGGTCTGTGCGGGGTCTTGACGGTGGGCTCAAGTCGCTGCCTGCATAGCCACGCT  
GAGGCCCTGCGGGAGAAATGTGTAACTGCACCAGGAGATTCCGCTGCACTCAGGGCTTCCAGCTGCAGGACACA  
CCCAGGAAGAGCTGTGTCTACCGATCTGGCTTCTCCTTCTCCCGGGGCTGCTCTTACACATGTGCCAAGAAGATC  
CAGGTGCCGGACTGCTGCCCTGGTTCTTTGGCACGCTGTGTGAGCCATGCCAGGGGGTCTAGGGGGGGTGTGC  
TCAGGCCATGGGCAGTGCCAGGACAGGTTCTTGGGCAGCGGGGAGTGCCACTGCCACGAGGGCTTCCATGGAACG  
GCCTGTGAGGTGTGTGAGCTGGGCCCTACGGGCCAACTGCACCGGAGTGTGTGACTGTGCCCATGGGCTGTGC  
CAGGAGGGGCTGCAAGGGGACGGAAGCTGTGTCTGTAACTGCGGTGGCAGGGCCTCCGCTGTGACCAGAAAATC  
ACCAGCCCTCAGTGCCCTAGGAAGTGCAGCCCAATGCCAACTGCGTGCAGGACTCGGCCGGAGCCTCCACCTGC  
GCCTGTGCTGCGGGATACTCCGGCAATGGCATCTTCTGTTCAGAGGTGGACCCCTGCGCCACGGCCATGGGGG  
TGCTCCCTCATGCCAACTGTACCAAGGTGGCACCTGGGCAGCGGACATGCACCTGCCAGGATGGCTACATGGG  
GACGGGGAGCTGTGCCAGGAATTAACAGCTGTCTCATCCACCACGGGGGCTGCCACATTCACGCCGAGTGCATC  
CCCACTGGCCCCCAGCAGGTCTCCTGCAGCTGCCGTGAGGGTTACAGCGGGGATGGCATCCGACCTGCGAGCTC  
CTGGACCCCTGCTCTAAGAACAATGGAGGATGCAGCCCATATGCCACCTGCAAAAGCACAGGGGATGGCCAGAGG  
ACATGTACCTGCGACACAGCCACACCGTGGGGGACGGCTCACCTGCCGTGCCGAGTCGGCCTGGAGCTCCTG  
AGGGATAAGCATGCCTCATTCTTCAGCCTCCGCTCCTGGAATATAAGGAGCTCAAGGGCGATGGGCCTTTACC  
ATCTTCGTGCCGCACGAGATCTAATGAGCAACCTGTGCGAGGATGAGCTGGCCCGATTCTGCGCATCGCCAG  
CTGGTGTTCGCTACCACGTGGTTGGCTGTGCGGGGCTGCGGAGCGAGGACCTGCTGGAGCAGGGGTACGCCACG  
GCCCTCTCAGGGCACCCACTGCGCTTACAGCGAGAGGGAGGGCAGCATATACCTCAATGACTTCGCGCGCTGGTG  
AGCAGCGACCATGAGCCGTGAACGGCATCCTGCACTTCATTGACCGTGTCTGCTGCCCCCGAGGCGCTGCAC  
TGGGAGCCTGATGATGCTCCCATCCGAGGAGAAATGTACCGCCCGCCAGGGCTTCGGTTACAAGATCTTC  
AGCGGCCTCCTGAAGGTGGCCGGCCTCCTGCCCTGCTTCGAGAGGCATCCCATAGGCCCTTCACAATGCTGTGG  
CCCACAGACGCCGCCCTTTCGAGCTCTGCCCTCCGGATCGCCAGGCCTGGCTGTACCATGAGGACACCGTGACAAG  
CTAGCAGCCATTCTGCGGGGCCACATGATTGCAATGTGAGGCCTTGGCATCTGACCTGCCCAACCTGGGCCCCA  
CTTCGAACCATGCATGGGACCCCCATCTCTTCTCCTGCAGCCGAACGCGGGCCGTTGAGCTCATGGTGGGTGAG  
GATGATGCTCGCATTGTGCAGCGGCACTTGGCCTTTGAGGGTGGCCTATGGCATCGACCAGCTGCTGGAG  
CCACCTGGCCTTGGTGTCTGCTGTGACCACTTTGAGACCGGGCCCTGCGACTGAACACCTGCAGCATCTGTGGG  
CTGGAGCCACCCTGTCTGAGGGGTACAGGAGCAGGGCAGCCCTGAGGCCTGCTGGCGCTTCTACCCGAAGTTC  
TGGACGTCCCTCCGCTGCACTCTTTGGGATTACGCAGCGTCTGGGTCCACCCAGCCTTTGGGGTAGGCCCAA  
GGCCTGGGCAGGGGCTGCCACCGCAATTGTGTACCAACACCTGGAAGCCAGCTGCTGCCCTGGTCACTATGGC  
AGTGAGTGCCAAGCTTGCCCTGGCGGCCCCAGCAGCCCTTGTAGTGACCGTGGCGTGTGCATGGACGGCATGAGT  
GGCAGTGGGCAGTGTCTGTGCGGTTTCAAGTTTGTGTTGGGACAGCCTGTGAACTCTGTGCTCCTGGTGCCTTGGG  
CCCCATTGTCAAGCCTGCCGCTGCACTGTGCATGGCCGCTGTGATGAGGGCTTGGGGCTCTGGCTCCTGCTTC  
TGTGATGAAGGCTGGACTGGGCCACGCTGTGAGGTGCAACTGGAGCTGCAGCCTGTGTGTACCCACCTGTGCA  
CCCAGGGCTGTGTGCCGTGCAGGCAACAGCTGTGAGTGCAGCCTGGGCTATGAAGGGGATGGCCGTGTGTGTACA  
GTGGCAGACCTGTGCCAGGACGGGCATGGTGGCTGCAGTGAGCAGCAGCCAACTGTAGCCAGGTAGGAACAATGGTC  
ACTTGTACCTGCCTGCCCGACTACGAGGGTGTGGCTGGAGCTGCGGGCCCGCAACCCCTGCACAGATGGCCAC  
CGCGGGGGCTGCAGCGAGCACGCCAACTGCTTGAGCACCGGCCTGAACACACGGCGCTGTGAGTGCCACGAGGC  
TACGTAGGCGATGGACTGCAGTGTCTGGAGGAGTCGGAACCACCTGTGGACCGCTGCTTGGGCCAGCCACGCCC  
TGCCACTCAGATGCCATGTGCACTGACCTGCACTTCCAGGAGAAACGGGCTGGCGTTTTCCACCTCCAGGCCACC  
AGCGGCCCTTATGGTCTGAACTTTTCGGAGGCTGAGCGGCATGCGAAGCACAGGGAGCCGCTCCTTGCTTCATTC  
CCTCAGCTCTCTGCTGCCAGCAGCTGGGCTTCCACCTGTGCCTCATGGGCTGGCTGGCCAATGGCTCCACTGCC  
CACCTGTGGTTTTCCCTGTGGCGGACTGTGGGATGGTTCGGGTGGGCATAGTCAGCCTGGGTGCCCGCAAGAAC  
CTCTCAGAACGCTGGGATGCCACTGCTTCCGTGTGCAAGATGTGGCCTGCCGATGCCGAAATGGCTTCGTGGGT  
GACGGGATCAGCACGTGCAATGGGAAGCTGCTGGATGTGCTGGCTGCCACTGCCAACTTCTCCACCTTCTATGGG  
ATGCTATTGGGCTATGCCAATGCCACCCAGCGGGTCTCGACTTCTGGACTTCTGGATGATGAGCTCACGTAT  
AAGACACTCTTCGTCCCTGTCAATGAAGGCTTTGTGGACAACATGACGCTGAGTGGCCAGACTTGGAGCTGCAT

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**FIGURE 1163C**

GCCTCCAACGCCACCCTCCTAAGTGCCAACGCCAGCCAGGGGAAGTTGCTTCCGGCCCACTCAGGCCTCAGCCTC  
ATCATCAGTGACGCAGGCCCTGACAACAGTTCCTGGGCCCTGTGGCCCCAGGGACAGTTGTGGTTAGCCGTATC  
ATTGTGTGGGACATCATGGCCTTCAATGGCATCATCCATGCTCTGGCCAGCCCCCTCCTGGCACCCCCACAGCCC  
CAGGCAGTGCTGGCGCCTGAAGCCCCACCTGTGGCGGCAGGCGTGGGGGCTGTGCTTGCCGCTGGAGCACTGCTT  
GGCTTGGTGGCCGGAGCTCTCTACCTCCGTGCCCAGGCAAGCCCATGGGCTTTGGCTTCTCTGCCTTCCAGGCG  
GAAGATGATGCTGATGACGACTTCTACCGTGCCAAGAAGGGACCAACCCACCCTGGTCTCTGTCCCCAACCT  
GTCTTTGGCAGCGACACCTTTTGTGAACCCTTCGATGACTCACTGCTGGAGGAGGACTTCCCTGACACCCAGAGG  
ATCCTCACAGTCAAGTGACGAGGCTGGGGCTGAAAGCAGAAGCATGCACAGGGAGGAGACCACTTTTATTGCTTG  
TCTGGGTGGATGGGGCAGGAGGGGCTGAGGGCCTGTCCAGACAATAAAGGTGCCCTCAGCGGATGTGGGC

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**FIGURE 1164**

MAGPRGILLPLCLLAFCLAGFSFVRGQVLFKGC DVKTTFVTHVPTSCAAIKKQTCPSGWLRELPDQITQDCRYEV  
QLGGSMVSMMSGCRRKCRKQVVQKACCPGYWGSRCHECPGGAETPCNGHGTCLDGM DRNGTCVCQENFRGSACQEC  
QDPNRFPGDCQSVSCVHGVCNHGPRGDGSCLCFAGYTGPHCDQELPVCQELRCPQNTQCSAEAPSCRCLPGYTQ  
QGSECRAPNPCWPSPCSLLAQCSVSPKGQAQCHCPENYHGDGMVCLPKDPC TDLN LGGCP SNSTLCVYQKPGQAF C  
TCRPGLV SINSNASAGCF AFCS PFSCDRSATCQVTADGKTSCVCRESEVGDGRACYGHLLHEVQKATQTGRVFLQ  
LRVAVAMMDQGCREILTTAGPFTVLVPSVSSFSRTMNASLAQQLCRQHIIAGQHILEDTRTQOTRRWWTLAGQE  
ITVTFNQFTKYSYKYKDQFQOTFNIYKANNIAANGVFHVVTGLRWQAPSGTPGDPKRTIGQILASTEAFSRFETI  
LENCGLPSILDGPGPFTVFAPSNEAVDSL RDGRLIYLF TAGLSKLQELVRYHIYNHGQLTVEKLISKGRILTMAN  
QVLAVNISEEGRILLGPEGVPLQRVDVMAANGVIHMLDGILLPPTILPILPKHCSEEQHKIVAGSCVDCQALNTS  
TCPPNSVKLDIFPKECVYIHDPTGLNLVKKGCASYCNQTIMEQGCKGFFGPDCTQCPGGFSNP CYKGKNCSDGI  
QNGACLCFPDYKGIACHICSNPNKHGEQCQEDCGCVHGLCDNRP GSGGVCQQTGCAPGFSGRFCNESMGDCGPT  
GLAQHCHLHARCVSQEGVARCRCLDGFEGDGF SCTPSNPCSHPDRGGCSENAECVPGSLGTHHCTCHKGWSGDGR  
VCVAIDECELDMRGGCHTDALCSYVGP GQSRCTCKLGFAGDGYQCSPIDPCRAGNGGCHGLATCRAVGGGQRVCT  
CPPGFGG DGFSCYGDIFRELEANAHFSIFYQWLKSAGITL PADRRVTALVPSEAAVRQLSPEDRAFWLQPRTLPN  
LVRAHFLQALFEEELARLGGQEVATLNPTTRWEIRNISGRVWVQNASVDVADLLATNGVLHILSQVLLPPRGDV  
PGGQGLLQQLDLVPAFSLFREL LQHHLVLPQIEAATAYTIFVPTNRSLEAQGNSSHL DADTVRHHVVLGEALSME  
TLRKGHRNSLLGPAHWIVFYNHSGQPEVNHVPLEGPMLEAPGRSLIGLSGVLTVGSSRCLHSHAEALREKCVNC  
TRRFRCTQGFQLQDTPRKSCVYRS GF SFSRGCSYTC AKKIQVPDCCPGFFGTLC EPCPGGLGGVCSGHGQCQDRF  
LGSGECHCHEGFHGTACEVCELGRYGP NCTGVCDCAHGLCQEG LQGDGSCVCNVGWQGLRCDQKITSPQCPRKCD  
PNANCVQDSAGASTCACAAGYSNGIFCSEVDP CAHGHGGCSPHANCTKVAPGQRTCTCQDGYMGD GELCQEINS  
CLIHGGCHIHAECIPTGPQQVSCSCREGYSGDGIRTCELLDPCSKNNGGCSPYATCKSTGDGQRTCTCDTAHTV  
GDGLTCRARVGLELLRDKHASFFSLRLLEYKELKGDGFFTIFVPHADLMSNLSQDELARIRAHRLVFRYHVVG C  
RRLRSED LLEQGYATALSGHPLRF SEREGSIYLNDFARVVSSDHEAVNGILHFIDRVLLPPEALHWEPPDAPIPR  
RNVTAA AQFGYKIFSGLLKVAGLLPLLREASHRPFTMLWPTDAAFRALPPDRQAWLYHEDHRDKLAAILRGHMI  
RNVEALASDLPNLGLPLRMHGTPISFSCSRTRAGELMVGEDDARIVQRHLPFEGGLAYGIDQLEPPGLGARCDH  
FETRPLRLNTCSICGLEPPCPEGSQE QGSPEACWRFPYKFWTSPPLHSLGLRSVWVHPSLWGRPQGLGRGCH RNC  
VTTTWKPSCCPGHYGSECQACPGGPSSPCSDRGVCM DGMMSGQCCLCRSGFAGTACELCAPGAFGPHCQACRCTV  
HGRCEGLGGSGSCFCDEGWTPRCEVQLELQPVCTPPCAPEAVCRAGNSCECSLGYEGDGRVCTVADLCQDGHG  
GCSEHANCSQVGTMTCTCLPDYEGDGWSCRARNPCTDGH RGGCSEHANCLSTGLNTRRCECHAGYVGDGLQCLE  
ESEPPVDRCLGQPPPCHSDAMCTDLHFQEKRA GV FHLQATSGPYGLNFSEAEAAACEAQGAVLASFPQLSAAQQLG  
FHLCLMGWLANGSTAHPVFPVADCGN GRVGI VSLGARKNL SERWDAYCFRVQDVACRCRNGFVG DGISTCNGKL  
LDVLAATANFSTFYGM LLYANATQRGLDFLDFLDDELTYKTLFVPVNEGFDNMTLSGPDLELHASNATLLSAN  
ASQ GKLLPAHSGLSLII SDAGPDNSSWAPVAPGTVVVSRIIVWDIMAFNGIIHALASPLLAPPQQA VLAPEAPP  
VAAGVGAVLAAGALLGLVAGALYLRARGKPMGF GFSAFQAEDDADDDFSPWQEGTNPTLVSVPNPVFGSDTFCEP  
FDSILLEEDFPDTQRILTVK

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## FIGURE 1165A

GCGGCGGTGGCGGCGGAGACCCGAACATGGCGACCGCGGCACCTTCGGGCCCCGAGCGGGAAGCCGAGCCGGCCA  
AGGAAGCGCGCTCGTGGGCTCGGAGCTTGTGGACACTTATACGGTTTACATCATCCAGGTCACTGATGGCAGCC  
ATGAGTGGACAGTAAAGCACCGCTACAGCGACTTCCATGACCTGCATGAAAAGCTCGTTGCAGAGAGAAAGATTG  
ATAAAAACCTGCTTCCGCCCCAAAAGATAATTGGGAAAACTCAAGAAGCTTGGTGGAGAAGAGGGAGAAGGATC  
TGGAGGTCTACCTCCAGAAGCTCCTGGCTGCCTTCCCTGGCGTGACCCCCAGAGTACTGGCCCACTTCTTGCATT  
TTCATTCTATGAGATAAATGGCATCACCGCGGCACTGGCTGAAGAGCTCTTTGAGAAAGGAGAACAGCTCCTGG  
GGGCGGCGAGGTCTTTGCCATTGGACCCCTGCAGCTGTATGCCGTACGGAGCAGCTGCAGCAGGGAAAGCCCA  
CGTGCGCCAGTGGGGATGCCAAGACCGACCTCGGGCACATCCTGGACTTCACCTGTCGCCTTAAGTACCTTAAGG  
TTTCTGGCACAGAAGGACCTTTTGGGACCAGCAACATTACAGGAGCAGCTCCTGCCGTTGCACCTATCAATATTCA  
AGTCCCTGCATCAGGTGGAGATAAGTCACTGTGATGCTAAGCACATCAGAGGGCTGGTGCATCGAAGCCCACT  
TAGCCACGCTGAGTGTCCGCTTCTCAGCAACCTCGATGAAGGAAGTCTTGTTCCTGAAGCCTCAGAAATTGATG  
AGTGGGAGCCTGAAGGCACAACCCCTAGAAGGCCCTGTGACTGCCGTATCCCCACTTGGCAGGCATTGACCACGC  
TTGACCTGAGCCACAACAGCATCTCCGAGATCGACGAGTCTGTGAACTGATCCAAAGATTGAGTTCTTGGACC  
TGAGTCACAATGGATTGCTGGTTGTGGACAATCTGCAGCACCTGTATAACCTTGTGCATCTGGACCTGTCTTACA  
ACAAGCTCTCCTCCTTGAAGGGCTTCACACCAAGCTGGGGAACATCAAGACCTTAAACCTGGCAGGCAACCTCC  
TAGAGAGTCTGAGTGGCCTGCACAAGCTCTACTCACTGGTCAACCTGGATCTCCGGGACAACAGGATCGAACAGA  
TGGAGGAGGTCCGGAGCATAGGCAGCTTCCCGTGTCTGGAGCACGTGTCTCTGCTGAACAACCCCTCTGAGCATCA  
TCCCCGACTACCGGACCAAGGTGCTGGCTCAGTTCGGAGAGAGGGCCTCAGAGGTCTGTCTGGATGACACAGTGA  
CCACAGAGAAGGAGCTGGACACTGTGGAAGTGCTGAAAGCAATTAGAAAGCCAAGGAGGTCAAGTCCAAACTGA  
GCAACCCAGAGAAGAAGGGTGGTGAAGACTCCCGGCTCTCAGCTGCCCCCTGCATCAGACCCAGCAGCTCCCCCTC  
CCACTGTGGCTCCCGCATCTGCCTCCCTGCCCCAGCCCCATCTCTCTAACCAAGGAATCATGTTTCGTTACAGGAG  
AGGCCCTGGCCAGCAGCTCTCGTCCACTGACAGTCTGACTCCCGAGCACCCAGCCCAATTGCCAGGGATGTTCTG  
ATTCTTGGAGTCCATCCCTGCGGGACAGGCAGCTTCCGATGATTTAAGGGACGTGCCAGGAGCTGTTGGTGGTG  
CAAGCCAGAACATGCCGAGCCGGAGGTCCAGGTGGTGGCGGGGTCTGGCCAGATCATCTTCTGCCCTTACCT  
GCATTGGCTACACGGCCACCAATCAGGACTTCATCCAGCGCTGAGCACACTGATCCGGCAGGCCATCGAGCGGC  
AGCTGCCTGCCTGGATCGAGGCTGCCAACCAGCGGGAGGAGGGCCAGGGTGAACAGGGCAGGAGGAGGATGAGG  
AGGAGGAAGAAGAGGAGGAGCTGGCTGAGAACCGCTACTTTGAAATGGGGCCCCAGACGTGGAGGAGGAGGAGG  
GAGGAGGCCAGGGGGAGGAAGAGGAGGAGGAAGAGGAGGATGAAGAGGCCGAGGAGGAGCGCCTGGCTCTGGAAT  
GGGCCCTGGCGCGGACGAGGACTTCTGTGAGGACATCCGCATCCTCAAGGTGCTGTGGTGTCTTCTGATCC  
ATGTGCAGGCGAGTATCCGCCAGTTCGCCGCTGCTTGTGCTACCGACTTCGGCATCGCAGTCTTCGAGATCC  
CGCACCAGGAGTCTCGGGGACGAGCCAGCACATCCTCTCCTCCTGCGCTTTGTCTTTTGTCTTCCGATGGCG  
ACCTCACCAGTTTGGCTTCTCATGCCGAGCTGTGTCTGGTGTCAAGGTACGGCACAGTGAGAACAGCTCT  
TCATTATCTCGGACGCCGCCAACCTGCACGAGTTCCACGCGGACCTGCGCTCATGCTTTGCACCCAGCACATGG  
CCATGCTGTGTAGCCCCATCCTCTACGGCAGCCACACAGCCTGCAGGAGTTCTGCGCCAGCTGCTCACCTTCT  
ACAAGGTGGCTGGCGGCTGCCAGGAGCGCAGCCAGGGCTGCTTCCCGTCTACCTGGTCTACAGTGACAAGCGCA  
TGGTGCAGACGGCCGCCGGGACTACTCAGGCAACATCGAGTGGGCCAGCTGCACACTCTGTTACGCCGTGCGGC  
GCTCCTGCTGCGCGCCCTCTGAGGCCGTCAAGTCCGCCGCCATCCCCACTGCTGTTGCTACGCCCCAGCACC  
TCAACGTCTCAAGGCCGACTTCAACCCCATGCCCAACCGTGGCACCACAACTGTGCAACCGCAACAGCTTCA  
AGCTCAGCCGTGTGCCGCTCTCCACCGTGTGCTGGACCCACACGAGCTGTACCCAGCCTCGGGGCGCCTTG  
CTGATGGCCACGTGCTAGAGCTGCTCGTGGGTACCGCTTTGTCACTGCCATCTTCGTGCTGCCCCACGAGAAGT  
TCCACTTCTGCGCTCTACAACAGCTGCGGGCCTCGCTGCAGGACCTGAAGACTGTGGTCATCGCCAAGACCC  
CCGGGACGGGAGGAGCCCCAGGGCTCCTTTGCGGATGGCCAGCCTGCCGAGCGCAGGGCCAGCAATGACCAGC  
GTCCCCAGGAGGTCCCAGCAGAGGCTCTGGCCCCGGCCCCAGTGAAGTCCCAGCTCCAGCCCTGCAGCAGCT  
CAGCCTCAGGCCAGCGAAGACTCCGGCCCCAGCAGGCCCTCAACTTCAGCTTTGGTCCCAGAGGAGACGCCAG  
TGAAGCTCCAGCCCCACCCAGCGAGGCCCTGCCCAGTACCCGAGTGAGCACCTCATCCAGGCCACCTCGG  
AGGAGAATCAGATCCCTCGCACTTGCCTGCCTGCCCCTCGCTCCGGCACGTGCCAGCCTGCGGGGACGCCCA  
TCATCGAGCTCTTCCACAGCAGCATTGTGAGGTTGAAAACGAGGAGCTGAGGCACCTCATGTGGTCTCGGTGG  
TGTTCTACCAGACCCAGGGCTGGAGGTGACTGCCTGCGTGTCTCTCCACCAAGGCTGTGTACTTTGTGCTCC

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**FIGURE 1165B**

ACGACGGCCTCCGCCGCTACTTCTCAGAGCCACTGCAGGATTCTTGGCATCAGAAAAACACCGACTACAACAACA  
GCCCTTTCACATCTCCAGTGCTTCGTGCTAAAGCTTAGTGACCTGCAGTCAGTCAATGTGGGGCTTTTCGACC  
AGCATTTCCGGCTGACGGGTTCACCCCGATGCAGGTGGTCACGTGCTTGACGCGGGACAGCTACCTGACGCACT  
GCTTCCTCCAGCACCTCATGGTCGTGCTGCTCTCTGGAACGCACGCCCTCGCCGGAGCCTGTTGACAAGGACT  
TCTACTCCGAGTTTGGGAACAAGACCACAGGGAAGATGGAGAATACTACGAGCTGATCCACTCTAGTCGCGTCAAGT  
TTACCTACCCAGTGAGGAGGAGATTGGGGACCTGACGTTCACTGTGGCCCAAAGATGGCTGAGCCAGAGAAGG  
CCCCAGCCCTCAGCATCCTGCTGTACGTGCAGGCCTTCCAGGTGGGCATGCCACCCCTGGGTGCTGCAGGGGCC  
CCCTGCGCCCCAAGACACTCCTGCTCACCAGCTCCGAGATCTTCTCCTGGATGAGGACTGTGTCCACTACCCAC  
TGCCCCGAGTTTGCCAAAGAGCCGCCGCAGAGAGACAGGTACCGGCTGGACGATGGCCGCCGCGTCCGGGACCTGG  
ACCGAGTGCTCATGGGCTACCAGACCTACCCGCAGGCCCTCACCCTCGTCTTCGATGACGTGCAAGGTCATGACC  
TCATGGGCAGTGTCACCCTGGACCACCTTTGGGGAGGTGCCAGGTGGCCCGGCTAGAGCCAGCCAGGGCCGTGAAG  
TCCAGTGGCAGGTGTTTGTCCCCAGTGCTGAGAGCAGAGAGAAGCTCATCTCGCTGTTGGCTCGCCAGTGGGAGG  
CCCTGTGTGGCCGTGAGCTGCCTGTGAGCTCACC GGCTAGCCCAGGCCACAGCCAGCCTGTCTGTGCCAGCCTG  
ACGCCTACTGGGGCAGGGCAGCAGGCTTTTGTGTTCTCTAAAAATGTTTTATCCTCCCTTTGGTACCTTAATTTG  
ACTGTCTCGCAGAGAATGTGAACATGTGTGTGTGTTGTGTTAATTCTTTCTCATGTTGGGAGTGAGAATGCCGG  
GCCCTCAGGGCTGTGCGGTGTGCTGTGAGCCTCCACAGGTGGTACAGCCGTGCACACCAGTGTCGTGCTGCTG  
TTGTGGGACCGTTGTTAACACGTGACACTGTGGGTCTGACTTTCTCTTCTACACGTCCTTTCTGAGTGTCGAG  
TCCAGTCCCTTTGTTGCTGTTGCTGTTGCTGTTGCTGTTGGCATCTTGCTGCTAATCCTGAGGCTGGTAG  
CAGAATGCACATTGGAAGCTCCACCCCATATTGTTCTTCAAAGTGGAGGTCTCCCTGATCCAGACAAGTGGGA  
GAGCCCGTGGGGGCAGGGGACCTGGAGCTGCCAGCACCAAGCGTGATTCTGTGCTGCTGTATTCTATTCCAAT  
AAAGCAGAGTTTGACACCGTCTTAAAAAAA



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**FIGURE 1166**

MATARTFGPEREAEPKAEARVVGSELVDITYTVYIIQVTDGSHEWTVKHRYSDFDLHEKLVAERKIDKNLLPPKK  
IIGKNSRSLVEKREKDLVYLQKLLAAPGVTPRVLAHFLHFHFEINGITAALAEELFEKGEQLLGAGEVFAIG  
PLQLYAVTEQLQQGKPTCASGDAKTDLGHILDFTCRLKYLKVSGETEGPFGTSNIEQLLPFDLSIFKSLHQVEIS  
HCDAKHIRGLVASKPTLATLSVRF SATSMKEVLVPEASEFDEWEPEGTTLLEGPVTAIVIPTWQALTTDLSHNSIS  
EIDESVKLIPKIEFLDLSHNGLLVVDNLQHLNVLVHLDLSYNKLSLEGLHTKLGNIKTNLNLAGNLESLSGLHK  
LYSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSLNNPLSIIPDYRTKVLAQFGERASEVCLDDTVTTEKELDTV  
EVLKAIQKAKEVKSLSNPEKKGGEDSRLSAAPCIRPSSSPPTVAPASASLPQPILSNQGIMFVQEEALASSLS  
TDSLTPHQP I AQGCSDSLESIPAGQAASDDL RDVP GAVGGASPEHAEPEVQVVP GSGQIIFLPFTCIGYTATNQ  
DFIQRLSTLIRQAIERQLPAWIEAANQREEGQGEQGEEDDEEEEEEDVAENRYFEMGPPDVEEEE GGGQGEED  
EEEEDEEAEEERLAEWALGADEDFLEHIRILKVLWCFLIHVQGSIRQFAACLVLTDFGI AVFEIPHQESRGSS  
QHILSSLR FVFCFPHGDLTEFGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMMAMLCSPILY  
GSHTSLQEFLRQLLT FYKVAGGCQERSQGCFFVYLVS DKRMVQTAAGDYSGNIEWASCTLC SAVRRSCCAPSEA  
VKSAAIPYWLLLT PQHLNVIKADFNPMFNRGTHNCRNRNSFKLSRVPLSTVLLDPTRSC TQPRGAFADGHVLELL  
VGYRFVTAIFVLPHEKFHFLRVYNQLRASLQDLKTVVIAKTPGTGGSPQGSFADGQPAERRASNDQRPQEVPAEA  
LAPAPVEVPAPAPAAASASGPAKTPAPAEASTSALVPEETPVEAPAPPPAEAPAQYPSEHLIQATSEENQIPSHL  
PACPSLRHVASLRGSAI IELFHSSIAEVENEE LRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFVLHDGLRRYFS  
EPLQDFWHQKNTDYNNSPFFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQVVTCLTRDSYLTHCFLQHLMVV  
LSSLERTPSPEPVDKDFYSEFGNKT TGKME NYELIHSSRVKFTYPSEEEIGDLTFTVAQKMAEPEKAPALSILLY  
VQAFQVGMPPPGCCRGPLRPKTLTLLTSSEIFLLDED CVHYLP EFAKEPPQRDRYRLDDGRRVRDLDRVLMGYQT  
YPQALTLVFDVQGHDLMGSVTL DHFGEVPGGPARASQGREVQWQVFVPSAESREKLISLLARQWEALCGREL PV  
ELTG

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**FIGURE 1167**

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCCGCCTCCTTCGCCGCCGCTCTGCAGTCCTCAG  
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCCT  
GCTGGACCCCTTCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT  
GGATGGATGAGTGGCTTCTTCCACCTAGATTCTTCCACAGGAGCCAGCATACTTCTGAACATCGAGAGTGT  
TGTTGCCGCTGCCATTCTTATCCCGAGTCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA  
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCCTCGGGCATTGTCCACTGCAGCAGTACA  
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGTCTAAGGCCAAGGTCCAACAGACTCC  
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCTGCCACAAGCCAGGGCAC  
TGCAAGCAAATGCCCTTTCCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA  
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT  
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAAGTCCAGGACATTATGCAAAGCAAAGACC  
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTTCAGTATGATCGTTTCTTTGA  
GAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAACTGTGAACCGGCGAGCACACATCTT  
CCCCATGGCAGATGACTATTGAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT  
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTGGGGCAGGTGG  
TACTAGAAATATTTCTGGAAGTAGTAAATTCATGTGGACTTAGACGGGGAGCTGGCAGACCTCCATGGGAAAGA  
TGCCGCACTCTTGTTTTCTCGTGCTTTGTGGCCAATGACTCAACCTCTTACCCTGGCTAAGATGATGCCAGG  
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGAAACAGCCGAGTGCCAAAGTA  
CATCTTCCGCCACAATGATGTGAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT  
GGCATTTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT  
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCACTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG  
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCCTTGTTGTGTGGAGGGTACAT  
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCTATGCTGCTGGCTTCATCTTACCACCTCTCTGCCACC  
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA  
CCAGCGCAACGTCAAATCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT  
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA  
CGTGCAAGCAATCAATTACCCTACGGTGCCCCGGGGAGAAGAGCTCTACGGATTGCCCCCACCCTCACCACAC  
ACCCAGATGATGAATACTTCTTGTGAGAACTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCCTCA  
TTCCTCAGCTGAGTGAACCTTCTGCAGGAGGCCACTGCATTTTGAAGTATGAGTGAAAGAGAGAAGTCCATTTT  
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA  
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTAATCTATAGTAAAAAC  
ATAGTCCTGGAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1168**

MESVVRRCPFLLSRVPQAFLLQKAGKSLFFYAQNCPKMMVEVGAKPAPRALSTAAVHYQQIKETPPASEKDKTAKAKV  
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCKASLELQEDVQEMNAVRKEVAETSAG  
PSVVSVKTDGGDPGSLKKNFQDIMQKQRPERSHLLQDNLPKSVSTFYDRFFEKKIDEKKNDHTYRVFKTVNRR  
AHIFPMADDYSDSLITKKQVSVWCSNDYLGMSRHPVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL  
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRSDPSV  
PKIVAFETVHSMGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFGCV  
GGYIASTSSLIDTVRSYAAGFIFTTSLPPMLLAGALESVRILKSAEGRVLRQHQNRVVKLMRQMLMDAGLPVVHC  
PSHIIPVRVADAANKTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE  
LKPSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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**FIGURE 1169**

ATGCCCTACCAATATCCATTGCTGACCCCGGAGCAGAAGGAGCTGTCTGACATGACTCATCGCATCGTAGCTCTG  
GGCAAGGGCATCCCGGCTGCAGATGAGTCCACTGGGAGCACTGCCAAGTGGCTGCAGTCCATTGGCACCGAGAAT  
ACCGAGGAGAACCGGTGCTTCTACCGCCAGCTGTGGCTGACAGCTGACAACCGCGTGAACCCCTGCATCAAGGGT  
GTCATCCTCTTCCATGAGACGCTGTACCAAAGGCGGATGATGGGCGTCCCTTCCCCCAAGTTATCAAATCCAAG  
GGCAATGTTGTGAGCATCAAGTGTGTCAATGTCCTGGCCCACTATGCCAGCATCTGCCAGCAGAATGGCATTGTG  
CTCTTCTACTGCCAGTATGTAACCGAGAAGGTGTGGCTGCTCTACAAGGCTCTGAGTGACCATGACATCTACCTG  
GAAGGCACCTTGCTGAAGTCCAATATGGTCACCCAGGCCATGCCTGCATCCAGAAGTTTTCTCATGAGGAGATT  
GCCATGGCAACTGTCACAAGCACTACACTCTGGGGAATAAGCGGCCTAGAAGGATCACAACCTGGGCCAGAACAGG  
GCCCACCCAGACTCATCACTGAGGCAGAGCAAGGAAGTGTCCATCAACCTCAATGCCATTAAACAAGTGCCCCCTC  
CTGAAGCCCTGGGGCCTGACCTTCTCATATAGCTGA

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**FIGURE 1170**

TTCCGGCGTTGTTGACCCTATTTCCCGTGCTGCACCGCAGCCCCTTTCTCTTCCGGTTCTAGGCGCTTCGGGAGC  
CGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACACACAACCAGTCCCAGAAATGGCACAGAAA  
TGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGGTGGACCCCAAGTTCCTGAGGAACATGCG  
CTTTGCCAAGAAGCACAAACAAAAAGGGCCTAAAGAAGATGCAGGCCAACAAATGCCAAGGCCATGAGTGCACGTGC  
CGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGATCCCAAAGGGTGTGAGCCGCAAGCTCGA  
TCGACTTGCCCTACATTGCCCACCCCAAGCTTGGGAAGCGTGCTCGTGCCCGTATTGCCAAGGGGCTCAGGCTGTG  
CCGGCCAAAGGCCAAGGCCAAGGCCAAGGCCAAGGATCAAACCAAGGCCAGGCTGCAGCCCCAGCTTCAGTTCC  
AGCTCAGGCTCCCAAACGTACCCAGGCCCCCTACAAAGGCTTCAGAGTAGATATCTCTGCCAACATGAGGACAGAA  
GGACTGGTGCAGCCCCCAGCCCCGCCCCCTGGGCTACCATCTGCATGGGGCTGGGGTCCTCCTGTGCTATTGTA  
CAAATAAACCTGAGGCAGGAAA

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**FIGURE 1171**

MAKSKNHTTHNQSRKWHRNGIKKPRSQRYESLKGVDPKFLRNMRFKKHNKKGLKKMQANNAKAMSARAEAIKAL  
VKPKEVKPKIPKGVSRKLDRLAYIAHPKLGKRARARIAKGLRLCRPKAKAKAKAKDQTKAQAAAPASVPAQAPKR  
TQAPTKASE

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**FIGURE 1172**

GGGCGCTGAGAGGCGAGCGTGAGCCCAGCGACAGGAGAGTGAGCTCACCACGCGCAGCGCCATGACCAGCAAGGG  
TCCCGAGGAGGAGCACCCTCGGTGACGCTCTCCGCCAGTACCTGCGTATCCGCACTGTCCAGCCCAAGCCTGA  
CTATGGAGCTGCTGTGGCTTTCTTTGAGGAGACAGCCCGCCAGCTGGGCCTGGGCTGTGAGAAAGTAGAGGTGGC  
ACCTGGCTATGTGGTGACCGTGTGACCTGGCCAGGCACCAACCCTACACTCTCCTCCATCTTGCTCAACTCCCA  
CACGGATGTGGTGCCTGTCTTCAAGGAACATTGGAGTCACGACCCCTTTGAGGCCTTCAAGGATTCTGAGGGCTA  
CATCTATGCCAGGGGTGCCAGGACATGAAGTCCGTGAGCATCCAGTACCTGGAAGCTGTGAGGAGGCTGAAGGT  
GGAGGGCCACCGGTTCCCCAGAACCATCCACATGACCTTTGTGCCTGATGAGGAGGTTGGGGGTCACCAAGGCAT  
GGAGCTGTTTCGTGCAGCGGCCTGAGTTCCACGCCCTGAGGGCAGGCTTTGCCCTGGATGAGGGCATAGCCAATCC  
CACTGATGCCTTCACTGTCTTTATAGTGAGCGGAGTCCCTGGTGGGTGCGGGTTACCAGCACTGGGAGGCCAGG  
CCATGCCTCACGCTTCATGGAGGACACAGCAGCAGAGAAGCTGCACAAGGTTGTAAACTCCATCCTGGCATTCCG  
GGAGAAGGAATGGCAGAGGCTGCAGTCAAACCCCACTGAAAGAGGGGTCCGTGACCTCCGTGAACCTGACTAA  
GCTAGAGGGTGGCGTGGCTATAACGTGATACCTGCCACCATGAGCGCCAGCTTTGACTTCCGTGTGGCACC GGA  
TGTGGACTTCAAGGCTTTTGAGGAGCAGCTGCAGAGCTGGTGCCAGGCAGCTGGCGAGGGGGTCACCCTAGAGTT  
TGCTCAGAAGTGGATGCACCCCCAAGTGACACCTACTGATGACTCAAACCCCTGGTGGGCAGCTTTTAGCCGGGT  
CTGCAAGGATATGAACCTCACTCTGGAGCCTGAGATCATGCCTGCTGCCACTGACAACCGCTATATCCGCGCGGT  
GGGGGTCCCAGCTCTAGGCTTCTCACCCATGAACCGCACACCTGTGCTGCTGCACGACCACGATGAACGGCTGCA  
TGAGGCTGTGTTCTCCGTGGGGTGGACATATATACACGCCTGCTGCCTGCCCTTGCCAGTGTGCCTGCCCTGCC  
CAGTGACAGCTTGAGCCCTGGAACCTCTAAACCTTTGCCCTGGGGCTTCCATCCCAACCAGTGCCAAGGACCTCC  
TCTTCCCCCTTCCAAATAATAAAGTCTATGGACAGGGCTGTCTCTGAAGTACTAACACAAGGACA

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**FIGURE 1173**

MTSKGPEEEHPSVTLFRQYLRI RTVQPKPDYGA AVAFFEETARQLGLGCQKVEVAPGYVVTVLTPGNTLSSI  
LLNSHTDVVPVFKEHWSHDPFEAFKDSEGYIYARGAQDMKCVSIQYLEAVRRLKVEGHRFPRTIHMTFVPDEEVG  
GHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSPWVVRVTSTGRPGHASRFMEDTAAEKLHKVVNS  
ILAFREKEWQRLQSNPHLKEGSVTSVNLTKLEGGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEG  
VTLEFAQKWMHPQVTPTDSDNPWWAAFSRVCKDMNLTLEPEIMPAATDNRYIRAVGVPALGFSPMNRTFVLLHDH  
DERLHEAVFLRGVDIYTRLLPALASVPALPSDS



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**FIGURE 1174**

CGCCAGCACGCGCCTGCTTCCCGTCTGCGCGAGTCCACGCAGCTCCCCAGATCAAGAAGCTGAGGCCCCAGGTTA  
CACACTAAAGTAAATGGCAGAGGCAGAAATAACACCTATGTCTCTCTGACCCCAAGGCATGTTCTTAAAGTTCTG  
GAAACCTCCTGGAGGCTTCCTTGCTGCTCCTCTGGGACTGCCACCCTGGGCAGGGTGTCTGTGGCCCCCATCA  
TCGTGGTTTTGAACCACAGGCCCTTACCAGCACAGCAGCAGCAGGCATGGCAGCAAGCGTGGAGCAGCGCAGG  
GCACCATCCAGGTGCAGGGCCAGGCCCTCTTCTCCGAGAGGCCCTGCCCGGCAGTGGGCAGGCTCGCTTCTCTG  
TACTGCTGCTGCATGGTATTCTGCTTCTCCTCCGAGACCTGGCAGAACCTGGGTACACTGCACAGGCTGGCCCAGG  
CTGGCTACCGGGCTGTGGCCATTGACCTGCCAGGTCTGGGGCACTCCAAGGAAGCAGCAGCCCCCTGCCCTATTG  
GGGAGCTGGCCCCCTGGCAGCTTCTTGGCGGCTGTGGTGGATGCCTTGGAGCTGGGCCCCCGGTTGTGATCAGTC  
CATCACTGAGTGGCATGTACTCCCTGCCCTTCCCTACGGGCCCTGGCTCCAGCTCCCGGGCTTTGTGCCAGTGG  
CCCCCATCTGCACTGACAAAATCAATGCTGCCAACTATGCCAGTGTGAAGACTCCAGCTCTGATTGTATATGGAG  
ACCAGGACCCCATGGGTGAGACCAGCTTTGAGCACCTGAAGCAGCTGCCCAACCACCGGGTGTGATCATGAAGG  
GGGCGGGGCACCCCTGTTACCTGGACAAACCAGAGGAGTGGCATAACAGGGCTGCTGGACTTCTTGCAGGGGCTCC  
AGTGAAGCCCAGCACTGCTGCAGGGGGTGGGCTGCCTGCCTGCTCTGAGCTCTCTCTTGCACGCTCTCTCTTCTC  
TCCCAGGCTCTGGCTCATGCACATGCAACAGGTGCGTCTGTCTATATGTCTGGGTTCTTGTCTTTTGTGGTCTGT  
TTGTCTTTTCTACCTCTTTCTCTTGCAGTGATAGACTGAGGGGGTAAATCAAGAGAAAAAACTCTCAGGAATCA  
AGGAACATAATCCTGTGGAGGGTAATCCATTACATGAGCTTCTCCIGTTCTTCCACTTTCTTGCCTGGCTTTTAC  
TCCTTCCCCTGCTCTGCCCAGCCTTTCCCTCCCACCCACTCCTCCTTCTGCAAATGCCCTGAAGGCCAGCCCTTA  
CCCCAACACCCACTTCCCCACCTCCTTAGGCCCCAGATACATACATGCCCACATGCACGCTTACATGTTTAGAGC  
CATCCTTGTTTCCAAATATGACCCTTCGCTTGAGGGCACTGCATAGGTACATCTAACTCTGGACTGGCATGCAC  
CCTAACCATGCTAACCTCACTGGCTGGGAAGGTGGGGACCCCATGGGCCAGCCCTTGCAGGAGGCCCTTTTGCAA  
GGCTTAGGGTGTGGCCAGCCCTGAAAGCTACTTGGACACAGGTTTCAGCTGGCCCCAGCCAGAGTGACCCCCA  
GAAAGGGAGGGCCACCGCTTTGCCCCCTGCTTTTACCCTTCCTTCTGGGTGCTCTACACCTCAGGTTACCAGGCC  
TGAGGCATCTCAGCCAAGCTTGTTTCTGCTCTGAGGCTTGTTGGGGTGGGAGCCAGAGTGGAGGTCGGTGAAATA  
AAGTGATGCAATTAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1175**

MAASVEQREGTIQVQGQALFFREALPGSGQARFSVLLHGHGIRFSSETWQNLGTLHRLAQAGYRAVAIDLPGLGHS  
KEAAAPAPIGELAPGSFLAAVDALELGPPVVISPSLSGMYSLPFLTAPGSQLPGFVPVAPICTDKINAANYASV  
KTPALIVYGDQDPMGQTSFEHLKQLPNHRVLIMKGAGHPCYLDKPEEWHGTGLLDFLQGLQ

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**FIGURE 1176**

ATAACCCCTCATTGTTTCGCAGCTGATGTCACTCGCAGTTGTGAGCGGCCGCCTCTCCCGGGGACAATGTGGGACT  
GAGCGGGCCAGCCGCCGTGCCGCCGCCGCCGCCGCCGAGGACAGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGC  
GGACACACTCGCAGGTGCGTGTGGCCCCAGCCTCGCCTGACAGAAATGAGCGGCTCGGACGGGGGACTGGAGGAGG  
AGCCAGAGCTCAGCATACCCCTCAGCTGCGGATGCTGTATGCACGGGAAGGAAGTGGGCAGCATCATCGGGAAGA  
AGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATCACCATCTCCGAGGGCTCCTGCCCTGAAC  
GCATCACCACCATCACCGGGTCTACAGCAGCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAACCTGGATGAGG  
ACCTTTGTGCTGCTCCTGCAAATGGTGGAATGTCTCCAGGCCTCCAGTGACCCTGCGCCTTGTATCCCTGCCA  
GTCAGTGTGGTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAGATCCGAGAGACTACGGGTGCCAGGTAC  
AGGTGGCAGGGGACCTGCTCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCTGATGCCATCATCC  
TGTGTGTGCGCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAAGGAGCCACTATCCCCTACCATCCGAGCC  
TCTCCCTAGGTACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCAG  
CTGAGGTACCAAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCCTTGCCACACCCAGCGTGGTGCCAGGACTGG  
ATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGTTCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGG  
GCAGCAAGATCAGCGAGATCCGGCAGATGTGAGGGGCACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGG  
AGCGGCATGTACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCCAGTACCTCATCACTGCCTGTCTAGAGA  
CGGCCAAGTCTACCTCTGGGGGGACGCCAGCTCGGCCCGCCGAGACCTGCCTGCCCCCTTCTCGCCACCCCTGA  
CGGCCCTGCCACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCCATCTCCCTCTCCAACCTCATCGGCCTCA  
AGCCCATGCCCTTCTTGGCTTTTACCACCTGCTTCCCCAGGGCGCCGCCGGGCTTGGCGGCCTACACTGCCAAGA  
TGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCCCCCTACTGAGGCCAGCTGAGGTACAGGC  
AGGGGCAGGCAGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCC  
AAACGCCGCTAACGCCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTCTCTCAGAG  
TGGGGGCAGTTTCTGCCCCAGGGGTCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTG  
CTTGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCC  
CTTAGGGCTTCTTGGCTTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCCGTTGGGTAGCTGGGGCCAGGCTT  
CTCTCCCCACCACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTTTTACTGGAATGAACCTGGCTGGGCTTGT  
CAGGGGGCACCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTGGCATGGGGCAGGGGCCAGTTCTCAGCA  
GCAGACACTCTGTACAGTTTTTTTCAATCCCTGTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAA  
AAAAAAA

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**FIGURE 1177**

MSGSDGGLLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTTITGSTAAVFHA  
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV  
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVSQGYGAVTPAEVTKLQQLSSHVP  
FATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIROMSGAHIKIGNQAEGAGERHVTITGSPVSIAL  
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAISLSNFIGLKPMFFLALPPASPGP  
PPGLAAYTAKMAAANGSKKAERQKFSPY

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**FIGURE 1178**

CCTCTGGAGTCCCTGTGGCAGAACTCAAATGGAAGGAGGAGCAGCTGCACCCAGGGGAGCAGGGTGTACCTCCG  
TTGGATAGAGCCGGCCAGGTTGCAGCGCGACACACTCGCAGGTTCGCTGTGGCCCCAGCCTCGCCTGACAGAATG

AGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAGCATCACCTCACGCTGCGGATGCTGATGCACGGG  
AAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATC  
ACCATCTCCGAGGGCTCCTGCCCTGAACGCATCACCACCATCACCGGGTCTACAGCAGCTGTCTTCCATGCAGTC  
TCCATGATTGCTTTCAAACCTGGATGAGGACCTTTGTGCTGCTCCTGCAAATGGTGGAAATGTCTCCAGGCCTCCA  
GTGACCCTGCGCCTTGTTCATCCCTGCCAGTCAGTGTGGCTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAG  
ATCCGAGAGACTACGGGTGCCCAGGTACAGGTGGCAGGGGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACG  
GTATCTGGGGTGCTGATGCCATCATCCTGTGTGTGCGCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAA  
GGAGCCACTATCCCTACCATCCGAGCCTCTCCCTAGGTACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTC  
CAGGGTCAGTATGGGGCTGTGACCCAGCTGAGGTACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCCTT  
GCCACACCCAGCGTGGTGCCAGGACTGGATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGTTTCCCAACGAT  
TTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGATCAGCGAGATCCGGCAGATGTGAGGGGCACATATCAAG  
ATCGGGAACCAAGCAGAGGGGCGCTGGGGAGCGGCATGTACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCC  
CAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTCTACCTCTGGGGGGACGCCCAGCTCGCCCCCGCAGAC  
CTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCCCACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCC  
ATCTCCCTCTCCAACCTTCATCGGCCTCAAGCCCATGCCCTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCCG  
CCGGGCTTGGCGGCCTACACTGCCAAGATGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCC  
CCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGCAGGACCACAGCAGGGGGCTGCCTCTGCACCCTACCC  
GCCAAGGAGACTCCACCCTGGGGTCCCAAACGCCGCTAACGCCACAGCGCATGGATGCACCCCTACCTTGCCT  
CCATCTATGGGAGTTCTTTCTCTCAGAGTGGGGGCAGTTCTGGCCCAGGGGTCTGAGCTGCGGCAGCCCCAGGG  
CAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCACCATG  
GCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTTCCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAG  
GGCCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCACCACCTGCAGATTCTTGTGCTTCCACTGATACCCTT  
TTGACTGGAATGAACTGGCTGGGCTTGTGAGGGGGCACCCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTG  
GCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTCTGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATAT  
TCTCAGCGACCA

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**FIGURE 1179**

MSGSDGGLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTTITGSTAAVFHA  
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGLIGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV  
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVSQGYGAVTPAEVTKLQQLSSHVP  
FATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGNQAEGAGERHVTITGSPVSIAL  
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAISLSNFIGLKMPFALALPPASPGP  
PPGLAAYTAKMAAANGSKKAERQKFSPY

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**FIGURE 1180**

ATTCTTTTGTCTCAGGGTAAGGGAAAGGCTAGGTACCTACCATGTATGTGCTTATTGTTTAAATTCTCATC  
ACTCTTTGGAGATGGGAATTTGTATCCCTTCTACAGATGGAGAAGCTGAGGCTCAGAGGGTTGAATGGGCTCCC  
CAGGCTTACACAGCTCGTGAGACACACATAAGCACCTGGTCAGAGTGATGTGTGGCGCTCAAGGTCCATGCAGT  
CTCTTTCTCTGGGAGTTTGACTAGCCAGCTCTGGGGTCCCCATGTAAGGGCAGGGGCAGGGTGGACTGGGCTC  
CTCTCGAACCCCTCTTTGGCTGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGCGGACACACTCGCAGGTGCTGTG  
GCCCCAGCCTCGCCTGACAGAATGAGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAACATCACCTC  
ACGCTGCGGATGCTGATGCACGGGAAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATC  
CGGGAGCAGGTGAGGATGGAGTTTGGGGGAGGAGCCAGGGCACCTGATGTGGAGGGGAGATCCCTGCCCCACTT  
TCTCTCTGAACCACTCCTTCTGGGCTGACCAGTGAGTCCCCAGAGGGTGGCAGTTTGTAGCCTTGCCCTCAGGCC  
TGGTGAGTGGGGCAGGCAGACAAGTTCCGGCAAGGGAGCAGGGAAGATGCCCCGCTGCCCGCGCTCATTCTATA  
TCTGCAGAGCAGTGCCCCGATCACCATCTCCGAGGGCTCCTGCCCTGAACGCATCAACACCATCACGGGGTCTAC  
AGCAGCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAAGTGGATGAGGACCTTTGTGCTGCTCCTGCAATGG  
TGAAATGTCTCCAGGCCTCCAGTGACCTGCGCCTTGTCATCCCTGCCAGTCAGTGTGGCTCACTGATTGGGAA  
GGCTGGCACCAAGATCAAGGAGATCCGAGAGGTGAGGGGCGAGATATACCAACCCACAGGGAATCCGGGGCAAGGG  
AGCAGTTGTAAGAGGGGTGTTGGGCTTATGGCGTCTCTCCACCTAGAGAGCTCTGAGCCTGGGCAGCCCTTTTC  
TGGGTTATGGGAGCAGCCAGAAGTGGCCCTGTTCTCTGTTTGCACTACGGGTGCCAGGTACAGGTGGCAGG  
GGACCTGCTCCCCAACTCCACAGAGCGAGCTGTACGGTATCTGGGGTGCTGATGCCATCATCTGTGTGTGCG  
CCAGATCTGCGCTGTTATCCTGGAGTCCCCACCAAAGGAGCCACTATCCCTACCATCCGAGCCTCTCCCTAGG  
TACTGTTCTTCTCTCTGCCAACCAAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCAGCTGAGGTAC  
CAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCTTTGCCACACCCAGCGTGGTGCCAGGACTGGATCCCGGCAC  
ACAGACCAGCTCACAGGAGTTCTTGGTTCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGAT  
CAGCGAGATCCGGCAGATGTCAAGGGCACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGGAGCGGCATGT  
CACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTC  
TACCTCTGGGGGGACGCCCAGCTCGGCCCCCGCAGACCTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCC  
CACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCCATCTCCCTCTCCAACCTCATCGGCCCTCAAGCCCATGCC  
CTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCGCCGGGCTTGGCGGCTTACTGCCCAAGATGGCAGCAGC  
TAATGGGAGCAAGAAGGCTGAGCGGCAGAAATCTCCCCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGC  
AGGACCACAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCCAAACGCCGCT  
AACGCCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTCTCTCAGAGTGGGGGCAGT  
TTCTGGCCAGGGGCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACA  
GGGAGCAGCCAGGAGACTCCCTAGTGCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTT  
CCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCAC  
CACCTGCAGATTTCTTGCTGCTTCCACTGATACCCCTTTGACTGGAATGAACTGGCTGGGCTTGTGAGGGGGCAC  
CCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTGGGCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTC  
TGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1181**

MPRCPALILYLQSSARITISEGSCPERITTTITGSTAAVFHAVSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIP  
ASQCGSLIGKAGTKIKEIREVRGEIYHPQGIRGKGAVVRGVLGLWRPPHLESSEPGQPFSGLWEQPEVAPVLCLQ  
TTGAQVQVAGDLLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFSVQGG  
YGAVTPAEVTKLQQLSSHAVPFATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGN  
QAEGAGERHVTITGSPVSIALAQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAI SL  
SNFIGLKPMPFALPPASPGPPPGLAAYTAKMAAANGSKKAERQKFSPY



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**FIGURE 1182**

GAATTCCGCCGCTGCTACACGCCTGGTGGGCAGCCATCTCGGCAACAGCGGCTGCTCGTAAGCGGGGAAAGCCGGC  
CTCTGGGGCCGGGGCTGGCGCGGGGGCCGGCAAGCGGCGGCGAAAGGCCGACTCTGCGGGGGACAGGGGCAAATC  
CAAGGGTGGCGGCAAGATGAATGAGGAGATCTCCAGCGACTCTGAGAGCGAGAGCCTAGCTCCAAGGAAGCCTGA  
GGAGGAGGAGGAGGAGGAGCTGGAGGAAACTGCACAGGAAAAGAGCTGCGCTTGGCCAAGCTCTACCTAGAGCA  
GCTCCGTCAGCAAGAGGAGGAGAAGGCTGAGGCCCGTGCAATTTGAGGAGGACCAGGTGGCGGGGCGCCTGAAGGA  
GGATGTGCTTGAGCAGAGGGGCAGGCTGCAGAAAGTTGGTGGCAAAAGAGATCCAGGCCCCAGCCTCAGCTGACAT  
TCGCGTTTTACGGGGGCACCAGCTCTCTATCACATGTTTGGTCGTCACCCCGATGACTCAGCCATCTTCTCTGC  
TGCCAAAGACTGCAGCATCATTAAGTGGAGCGTGGAGAGTGGACGGAAGCTGCATGTGATTCCCTCGAGCCAAGAA  
GGGTGCCGAGGGAAAGCCCCCTGGCCACAGCAGCCACGTCCTCTGCATGGCCATCTCCTCCGACGGCAAGTACCT  
TGCCTCTGGTGACCGCAGCAAGCTCATTCTCATTGGGAGGCCAGAGCTGCCAGCACTTGACACCTTCACAGG  
ACACCGGGATGCAGTGTGGGTCTGGCATTCCGCAGAGGCACCCACAGCTCTACAGCACATCCCACGATCGCTC  
CGTGAAGGTGTGGAATGTGGCAGAGAACTCCTACGTGGAGACGCTCTTCGGACACCAGGACGCTGTGGCTGCACT  
GGATGCCTTGAGCCGGGAGTGCTGTGTGACGGCTGGGGGCGGGGATGGGACTGTACGTGTGTGGAAGATCCCCGA  
GGAGTCCCAGCTTGTCTTCTATGGCCACCAGGGCTCCATCGACTGCATCCACCTAATCAATGAGGAGCACATGGT  
GTCCGGCGCGGACGATGGCTCTGTGGCCTTGTGGGGTCTCTCCAAGAAGCGACCACTTGCCCTGCAGCGTGAAGC  
TCACGGGCTGCGGGGAGAGCCAGGCCTGGAGCAGCCCTTCTGGATATCGTCGGTGGCAGCCCTCCTCAACACAGA  
CCTTGTGGCCACAGGCTCCACAGCTCCTGTGTGCGGCTTGGCAGTGTGGGAAGGCTTCCGGCAGCTTGACCT  
TCTCTGTGACATCCCCCTGGTGGGTTTTATCAACAGCCTCAAGTTCTCCAGCTCTGGGGACTTCTGGTGGCTGG  
GGTAGGGCAGGAGCACAGGCTTGGCCGATGGTGGAGAATCAAAGAGGCTCGGAATTCTGTCTGCATCATCCCACT  
CCGCAGGGTCCCTGTACCCCCAGCTGCTGGTTCCTGACACTCTTATCCTCCTTATTTAAGTCCTTCCCAGGCTAT  
GCCCCACCCTCTTTGAAGCTT

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**FIGURE 1183**

MSATAAARKRGKPPASGAGAGAGAGKRRRKADSAGDRGKSKGGGKMNEEISSDSESESLAPRKPEEEEEEELEETA  
QEKKLRLAKLYLEQLRQEEEEKAEARAFEEDQVAGRLKEDVLEQRGRLOKLVAKEIQAPASADIRVLRGHQLSIT  
CLVVTPDDSAIFSAAKDCSIIKWSVESGRKLHVIPRAKKGAEGKPPGHSSHVLCMAISSDGKYLASGDRSKLILI  
WEAQSCQHLYTFTGHRDAVSGLAFFRGTHQLYSTSHDRSVKVVNVAENSYVETLFGHQDAVAALDALSRECCVTA  
GGRDGTVRVWVKIPEESQLVFYGHQGSIDCIHLINEEHVMVSGADDGSVALWGLSKKRPLALQREAHGLRGEPLG  
PFWISSVAALLNTDLVATGSHSSCVRLWQCCEGFRQLDLLCDIPLVGFINSLKFSSSGDFLVAGVGQEHRLGRWW  
RIKEARNSVCIIPLRVPVPPAAGS

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**FIGURE 1184A**

GCAGCTTAGGCGCCACCAAGGCAAGAACCTAGCCTCCGAGGACCCCAAAAAGAAGAGAGCTCAGAAGCCCTCCCA  
CATGAGAAGAAACATACGAAAGCTACTCCGGGAGGATCAATTGGAGCCTGTTACCAAAGCAGCACAGCAAGAAGA  
GTTGGAAAAGAAGGAAGCGCCTGGAGCAGCAGAGGAAAGATTATGCAGCCCTATTCTACTGTTCCGCTGGAGTT  
CCTCCCTGAGGAAATTGCTTTAAGGGCAAGTGACGGTCCCCAACTGCCTCCTCGGGTCTTGGCCCAGGAAGTCAT  
TTGTTTGGACAGTAGCAGTGGCAGTGAGGATGAAAAAGCAGTCGAGATGAGGTGATTGAAGTGAAGTCTGGAGA  
GGAGGACACTCTGCACATTGTGGACAGCAGTGAATCTGTCACTGAAGATGATGAGGAAGAAGAGAAGGGTGGCAC  
CCATGTCAATGATGTCTTAACCAGCGTGACGCCCTTGGGCGGGTCTTGTCAACCTAAACCACCTCCAGAGGA  
GGAAATGTCTTCTTGGCCACAGTTGGCACGGGCTGTGAAACCTCATCAGATTGGCGGGATCCGGTTCCTTTA  
CGATAACCTAGTGGAGTCTCTGGAGAGGTTTAAAGACCAGCAGTGGCTTTGGCTGTATTCTGGCCACAGCATGGG  
TCTGGGGAAAACCTTTGCAAGTGATCTCTTTTCATCGACGTCTCTTCCGCCACACGCCAGCCAAAACAGTCTTGC  
CATTGTGCCGTTAATACTCTTCAGAATTGGCTGGCAGAGTTCAACATGTGGCTTCCACCTCCTGAAGCCCTCCC  
GGCTGACAACAAGCCTGAAGAAGTCCAGCCTCGGTTCTTTAAAGTTACATCTTGAATGATGAGCACAGACGAT  
GGCATCTCGTGCTAAAGTGATGGCTGATTGGGTGTGAGAGGGTGGCGTGCTGTGATGGGGTACGAGATGTACAG  
ACTCCTCACTCTGAAGAAATCATTGGCCACAGGTAGACCGAAGAAAACCAAGAAGCGTTCTCACCCAGTCATCAT  
TGATCTAGATGAGGAAGATCGGCAGCAGGAGTTTCGGAGAGAGTTTGAGAAGGCTTTATGCCGCCCTGGCCCTGA  
TGATAGTAATCTGTGATGAGGGACACCGCATCAAAACTGCCAGGCCAGCACCTCACAGGCTCTGAAGAATATCCG  
CTCTCGCCGCGGGTGGTGTGCTGACTGGGTACCTCTGCAAAACACCTCATTGAGTACTGGTGCATGGTGGACTT  
TGTGCGCCGACACTTCTTGGCACCCGGCAGGAGTTTCAGCAACATGTTTGAACGCCCTATCCTGAATGGGCAATG  
TATTGACAGCACACCTCAGGACGTCCGCCTCATGCGGTACCGGAGCCATGTCTGACAGTCTTCTGGAGGGCTT  
TGTGACAGAGGAGAGGCCACACTGTGCTGAAGATTCTCTCCCTGCCAAGGAAGAAAATGTGATCCTTGTGCGGCT  
CTCCAAGATCCAGCGAGATTTGTATACACAGTTCATGGATCGCTTCCGGGACTGTGGTAGCAGCGGTGGCTGGG  
GCTGAACCCCTTAAGGCATTCTGTGTGTGTGCAAGATCTGGAATCACCTGATGTGCTGTATGAAGCCCTTCA  
GAAGGAGAGCTTGGCCAATGAGCAGGACCTAGACGTGGAAGAAGTTGGCTCTGCAGGGACCAAGTGGCCGTGTCC  
ACCACAGGGAACAAAAGGCAAGGGAGAGGATAGCACCTTGGCTTCTCGATGGGAGAGGCAACCAATAGCAAGTT  
CCTACAGGGCGTTGGCTTCAACCTTTCCAGGAGCGAGGCAACAACATTGTACATATGAATGGGCCAAGGACCT  
TCTGACTAATTACCAGACTGGAGTCTTAGAAAACCTCTCCCAAGATGGTACTGCTTTTCCACCTGATTGAGGAAAG  
TGTGAAGCTTGGGGACAAGATCCTTGTGTTTAGCCAGAGTCTTTCCACCTTGGCTCTCATCGAGGAATTCCTTGG  
AAAACGAGAAGTACCTGTCCACCTGGTACCGAGGGGCAAGGAGCACAGAAGTGGGTTGAAACATCAGCTACTT  
CCGGCTAGATGTAGCACCCCTGCCTTTGAGAGGGAGCGGCTTATTAATCAGTTCAATGATCCAGCAACCTCAC  
CACCTGGCIGTTCTTCTCTCTACAAGGGCCGGATGCTTGGGTGTGAATCTGATTGGTGGCAACCGAGTGGTGGT  
GTTTGATGCTTCTTGAACCCCTTGCCATGATGCCAGGCAGTATGTGCGGTATACCGTTATGGCCAGAAAAGCC  
CTGTTACATCTATCGCCTTGTGGCTGATTACACTCTAGAAAAGAAGATCTATGACCGTCAGATTCCAAGCAGGG  
CATGTGAGATCGGGTGGTGGATGATCTAAATCCAATGCTGAACCTCACACGGAAGAGGTGGAAAACCTACTGCA  
CTTTGTTGAGAAGGAGCCAGCTCCCCAAGTTTCTTGAACGTAAAGGGGATCAAGGAGTCAGTCTGCAACTGGC  
CTGTCTGAAGTACCTCACCTCATCACAAGGAGCCTTTCGAGCATGAGTCATTGCTCTTGAACCGAAAGGATCA  
CAAGCTAACCAAGGCTGAGAAAAAGCAGCAAGAAAAAGCTATGAGGAAGACAAACGCACATCAGTCCCTATAC  
CCGCCCATCGTATGCGCAGTATTACCTGCCAGCGATCAGAGCCTGACCAGCATCCCCGCCTTCAGCCAGAGAAA  
CTGGCAGCCAACCTTGAAGGGTGATGAAAAGCCTGTGGCCAGTGTTCGTCCTGTGCAGTCCACCCCATCCCCAT  
GATGCCCCGGCATGTCCCATTTGGGAGGAAGTGTAAGCTCTGCCTCCAGCACAAATCCATCCATGAACCTTCCCAT  
CAACTACTTGCAGCGTGACAGGATCCTTGTGCAAGGTGGTCACCACGACAGATATTGTTATTCTCGGACTCAA  
CAGCTCCACAGATGTACAGGCAAGAATTAATGCTGGTGAGAGCATCCACATCATCCGTGGGACAAAAGGGACGTA  
CATCCGTACCAAGTGTGACGGATCTTTGCTGTCCGGGCAACTGGCAAACCAAAGGTTCTGAAGATGGTCCGGAT  
GGCTGCCTCAGGTTCCAGGGACCTTCTTGCGAGTCCACAAGCAACGGCAGACACAGTGCCTCATACCCAAAGC  
CCCCGACCCTGAGGGGCTGGCCAGGCCGTCTCTCTGACAGCCAGAGATCATCAGTGAGCTCAGCAGTATGC  
AGATGTGGCTGCTGCCCGGAATCCCGTCAGAGCTCCCCAAGCACCAATGCCGCCCTGCCTGGCCCCCGGCCCA  
ACTTATGGACAGCAGTGTGTTCCCGGGACAGCTCTCGGAAGTGAAGCTCGACTAGGGGGTTCATTGCCATCAATAG  
TTCCCTCTTGGTGAAGTGGCCAGCCCTGTGGTGACAGGCACCCAGTGTGGACTTAAGGGGCCACAAGCGAAAGTT  
GGCCACACCACCTGCTGCCAGGAGTCATCCCGCGGCGGTCCAGGAAGGGTCATCTGCCAGCCCCCGTGCAGCC

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**FIGURE 1184B**

GTATGAACACGGGTATCCAGTCTCTGGCGGGTTTGCCATGCCACCCGTCTCCTTAAACCATAACCTCACCACCCC  
CTTCACCTCCCAGGCTGGGGAGAACTCCCTGTTTATGGGCAGTACCCCTCCTACTACCAGCTGTCCAATTGCT  
GGCAGATGCCCGCCTGGTGTTCAGTGACTACTGACCCTCTGGTGCCAGCAGGCCCCGTCAGTTCTCTTCCAC  
GGCTACCTCAGTCACTGCCAGCAACCCCTCCTTCATGCTCAACCCTTCTGTGCCAGGGATACTACCCAGCTATTC  
ACTCCCATTCTCACAGCCACTCCTGTCCGAGCCGAGGATGTTTGCGCCTTTTCCTTCCCCTGTCTTGCCAGCAA  
CCTTTCGCGGGGCATGTCTATCTATCCAGGCTACATGTCCACATGCAGGCTACCCAGCTGGTGGCCTCCTACG  
GTCCCAGGTGCCCTCCATTTGACTCTCATGAGGTTGCCGAGGTTGGGTTTCAGCTCCAATGATGATGAGGATAAAGA  
CGATGATGTGATAGAGGTCACTGGGAAATAGCTAGGGAGCCCTCCCCACCTCACTTGGGGCCCCCAGCAGGTTG  
CCCACCAAGCTGAAAGGCAGTGATTIAGACCTTTTGAGAATAGGACACTTGGCAGGAGGGAAAAGGAAGAGGACA  
AAGGAGGGTGGTTGGCCAAAGTGGCAGAGCTCTGTTGCTGTTTAACAAAAGAGGC

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**FIGURE 1185**

MRRNIRKLLREDQLEPVTKAAQQEELERRKRLEQQRKDYAAPITVPLEFLPEEIALRASDGPQLPPRVLAQEV  
CLDSSSGSEDEKSSRDEVIELSSGEEDTLHIVDSSESVSSEDEEEEEKGGTHVNDVLNQDALGRVLVNLNHPPEE  
ENVFLAPQLARAVKPHQIGGIRFLYDNLVESLERFKTSSGFGCILAHSMGLGKTLQVISFIDVLFRRHTPAKTVLA  
IVPVNTLQNLWLAEFNMWLPPEALPADNKPEEVQPRFFKVHILNDEHKTMASRAKVMADWVSEGGVLLMGYEMYR  
LLTLKKSFATGRPKKTKKRSHPVIIIDLDEEDRQQEFRRFEKALCRPGPDVVICDEGHRIKNCQASTSQALKNIR  
SRRRVVLTGYPLQNNLIEYWCMDVFRPDLGTRQEFNSMFERPIIINGQCIDSTPQDVRLMRYRSHVLHSLLEGF  
VQRRGHTVLKIHLPakeENVILVRLSKIQRDLTYQFMDRFRDCGSSGWLGLNPLKAFVCCKIWNHPDVLYEALQ  
KESLANEQDLQDVEELGSAGTSARCPPQGTGKGEDSTLASSMGEATNSKFLQGVGFNPFQERGNINIVYEWAKDL  
LTNYQTGVLENSPKMVLLFHLIEESVKLGDKILVFSQSLSTLALIEEFLGKREVPCCPGTEGQGAQKWVRNISYF  
RLDGSTPAFERERLINQFNDPSNLTWLELLSTRAGCLGVNLIGANRVVFDASWNPCHDAQAVCRVYRYGQKKP  
CYIYRLVADYTLKKIYDRQISKQMSDRVVDLNPMLNFTRKEVENLLHFVEKEPAPQVSLNVKGIKESVLQLA  
CLKYPLHITKEFFEHESELLNRKDKLTKAEKKAACKSYEEDKRTSVPYTRPSYAQYYPASDQSLTSIPAFSQRN  
WQPTLKGDEKPVASVRPVQSTPIPMRHRVPLGGSVSSASSTNPSMNFPINYLQAGVLVQKVTTTDDIVIPGLN  
SSTDVQARINAGESIHIIRGTGTYIRTS DGRIFAVRATGKPKVPEDGRMAASGSQGPSCESTSNGRHSASSPKA  
PDPEGLARVSPDSPEIISELQQYADVAAARESRSQSSPSTNAALPGPPAQLMDSSAVPGTALGTEPRLGGHCLNS  
SLLVTGQPCGDRHPVLDLRGHKRKLATPPAAQESSRRRSRKGHLPAPVQPYEHGYPVSGGFAMPFVSLNHNLTTP  
FTSQAGENSLFMGSTPSYYQLSNLLADARLVFPVTTDPLVPAGPVSSSSSTATSVTASNPSFMLNPSVPGILPSYS  
LFFSQPLLSEPRMFAPFSPVLP SNLSRGMSIYPGYMSPHAGYPAGGLRSQVPPFDSHEVAEVGFSSNDDDKD  
DDVIEVTGK

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**FIGURE 1186**

GCCACCGCCGCGCCGAGTCCTTTTGTCCAAGATGGCGGCGCCGGGGGCGCTGCCTCCTCGGCCGCCGCTCCGCC  
GCCGCCGCTGTGAGAAACCTACGGGCGCCCGCCCGCCGCGCCAGCGCCATGAAGCGGCAGAGCGAGCGAGACTC  
TAGCCCCGAGCGGGCGCGGCTCGTCATCGTCCGCCAAGCGTCCGCGGGAGCGCGAACGGGAGGCGGAGGCGGGCGG  
GCGGGCGGGCGGCGACAAGGCCTCTGGCGGCGCCAAGCACCCGGTTCCAGCGCGGGCCCCGCGACAAACCCCGCGG  
CAGCGGAAGCGGCGGGGGCGGGCATCGCGACGCGCGCGGCACCGGGGACGCGAATCACCGCGCGAGTAGCGGGCG  
CTCCTCGGGCTCCGGCGCTGGCGGCGGGGACGCGGCGGCAAGGCCTCGGGGGACCCGGGCGCTCCGGCATGTC  
GCCCCGCGCTCTCCTCTGCCGCGCCTCCGCCACCGCTGGGGCCGAGCCCGCTGTCCCGGCTCATCCGCGG  
CGCGCTGAGTACAAGACGTTGCTCATCAGCAGCTTGAGCCCCGCGCTGCCCGCCGAGCACCTCGAGGACCGGT  
CTTCCACCAGTTCAAGCGCTTCGGCGAGATCAGCCTCCGCTGTGCGACACGCTGAGCTGGGCCGTGTGGCCTA  
CGTGAATTTCCGGCACCCACAGGACGACGCGAGGCCCGCCAGCACGCGCTGGCCCCGCGAGCTGCTGCTCTACGA  
CCGCCCCGCTCAAGGTAGAGCCCGTGTACCTGCGTGGCGGCGCGGGAGCAGTCGGCGAAGTAGCAGCAGCAGCGC  
CGCGCTTCCACGCTCCCCAGGGCGCGCCGCGCCCGACCCGCTCGGCTACCTCCCGCTACACGGAGGCTA  
CCAGTACAAGCAGCGCTCGCTGTCCCCCGTCTGCTGCCCGCCCCCTGCGGGAGCCCCGTGCCCGTACGCCGCCG  
AGCCTTCGCCCTGGATGCCGCTGCTGCCGCGCGCTGGGACTGTCCCGGGAGCGGGCCCTGGACTACTACGGGT  
GTACGACGACCGTGGGCGCCCCATGGCTACCCAGCTGTGTGTGAGGAGGACCTGATGCCCGAGGATGACCAGCG  
GGCCACGCGCAACCTCTTCATTGTAACCTGGACCACAGCGTATCTGAGGTGGAGCTGCGAAGGGCCTTCGAGAA  
ATATGGCATCATCGAGGAGGTGTCATCAAGAGGCCTGCCCGTGGCCAGGGCGGTGCCTATGCCTTCTCAAGTT  
CCAGAACCTGGACATGGCCCATAGGGCTAAGGTGGCCATGTCCGGCCGAGTGATTGGTCGAACCCCATTAAGAT  
AGGCTATGGCAAGGCCAACCCCACTCGTCTCTGGGTGGGTGGCTGGGACCTAACACGTCAGTGGCGGCTCT  
GGCCCGAGAGTTTGACCGCTTTGGGAGCATTTCGGACCATGATCACGTCAAAGGAGATAGCTTTGCCTATATTCA  
GTACGAGAGCTTGACGCGAGCCCAAGCGCCTGTGCTAAATGAGGGGTTTCCCTTGGGTGGACAGACCCGAG  
GCTCCGCGTGGATTTTGCCAAAGCAGAGGAGACTCGGTACCCCAAGCAGTACAGCCCTCGCCACTCCCTGTGCA  
TTATGAGCTGCTACAGATGGATACACCCGGCACCGCAACCTGGACGCGGACCTGGTGGGGACAGGACGCCCC  
ACACCTTCTGTACTACAGCCGAGACCGGACTTTTTTGAAGGGGACTGGACAGCCCAAGTAAAGCTCTGACCG  
CCGAAACAGCCTTGAGGGCTACAGTCGCTCAGTGCGCAGCCGGAGTGGTGAGCGTTGGGGGCGAGATGGAGACCG  
TGGTTTGCCCAAGCCCTGGGAAGAGAGGCGGAAACGGAGAAGCCTTTCCAGTGACCGTGGGAGGACAACCCATC  
ACCATATGAGGAACGGAGTAGGACCAAGGGCAGTGGGACGAGTCAGAGCGGGGCTCCGACCGCACCCCTGAGCG  
CAGCCGCAAGGAGAACCACTCCAGTGAAGGGACCAAGGAGTCCAGCAGCAACTCCCTCAGCAACAGCAGACATGG  
GGCTGAGGAACGGGGCCACCACCACCACACGAGGCTGCAGACTCTTCCACGGGAAGAAGGCAAGAGACAG  
CGAGCGCAATCACGGGACCACAGAGGCCGAGCCCAAGCCTCTGGAAGAGCCAAAACACGAGACCAAAAAGCTGAA  
GAATCTTTCAGAGTACGCTCAGACACTACAGCTGGGTGGATGGGCTTCTGGTGTGAAAAACAGCTGCTTCCC  
CACGCTATGCATATCCTAGAGGGGGACAGGGGGTGATCAGCAGTCTCCTCAAAGACCACACTTCTGGGAGCAA  
GCTGACCCAGCTGAAGATCGCCAGCGCCTTCGACTGGACCAGCCCAAGCTTGACGAGGTACACGACGCATCAA  
GCAGGGGAGCCCCAACGGCTATGCGTCTCTTAGCCACCCAGGCAACCCCAAGTGGGCTTGCACTGAGGGGAT  
GCCCCAGTAGAGCCCGGTCTGCAGAGGCGGCTTCTCAGGAACCTGGTCTCCTACTTGAAACAGAAGCAGGCCG  
AGGGGTGATCAGCTTGCCAGTGGGGGGTCCAAGGGCAGAGACGGCACAGGCATGCTCTACGCTTCCCACCCTG  
CGACTTTTCCAGCAGTACCTCCAGTCAGCACTAAGGACATTGGGCAAGCTAGAAGAAGACATGGTGATAGT  
CATCGTCAGAGACACTGCCAGCCCAAGCCTGTCTTTCCAGCGTCATGTTGTGTACAAAAGCAGTTATTTTA  
AAATCTGATCCCCTCTCTACCTACCCTTTGGTTTGAATTATCTCCTGGGTATTTTGGTTCATTGGGTGGG  
ATCAAAGTCTGTCCACCACCAAACTAAGTTCTTAGATTTTGGGGGATTTTTTTTTAAACGATGAGAAGGGA  
ATCCGGTTATGTTGATTTCTAGTGTACAAGATACTGTCTGTGTGTTCTGTATTTTTTTATTTTTTGACCAACT  
GTATGGAAAGTTGTCAAGTAAACCTTTGACAGAGGATGGATTTTAAACCTG

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**FIGURE 1187**

CTTCCGTCGCTGCTGTAGTCGCTTCCTGCGGCCAGCCCGGGTTCAATCAGCGGCCGACAACTGTCTAGGGCTCAG  
ACACCACCAGCCAATGAGGGAGGGCAGCGTGGAGCCGCCCGTCTGGGCTCGCGGCTCCTGGACCAATGGGGAAGT  
GGCATGTGGGAGGGCGCCGGGGGGCCCCCGCCAATGGGGAGCTACGGCGCGCGGCCGGGACTTGGAGGCGGTGC  
GGCGCGCGGGTGCCTTCAGTCGGTCGGCGGCCGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGATGA  
GGAGGATGTGGGCCACGCAGGGGCTGGCGGTGGCGCTGGCTCTGAGCGTGCTGCCGGGCAGCCGGGCGCTGCCGC  
CGGGCGACTGCCAAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCT  
CACCAGCCACTATTGAAAACGAACCTTATAAGTTCTGCCGGGAAGCAAGAGGCAAAGAGAATCGGTTGTGCTACT  
ATATCGGGGCCACAGATGATGCAGCCACCAAAATCATCAATGAGGTATCAAAGCCTCTGGCCCACCACATCCCTG  
TGGAGAAGATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACC  
TGAGCACAGTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCA  
AAGGCTGTGCAGAAAAGTCTGACTACATCCGGAAGATAAATGAAGTATGCCTAAATATGCCCCAAGGCAGCCA  
GTGCACGGACCGATTTGTAGTCTGCTCAATCTCTGTTCACCTGAGGGGGAAAAACAGTTCACTGCTTACTCC  
CAAAACAGCCTTTTTGTAATTTATTTTAAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTT  
TCCTGATGATGCTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTT  
CAAAGTGTGCTGGGATTTTTTATTAAAGAAAAAAATTCTAGCTGTC

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**FIGURE 1188**

ACCAGCCCAGCCTTTTCAGTGCAGGCTCCAGCCCTCCACCCCCACCCGAGTTGCAGGATGTCGATGACAGACTTGC  
TGAACGCTGAGGACATCAAGAAGGCGGTGGGAGCCTTTAGCGCTACCGACTCCTTCGACCACAAAAAGTTCTTCC  
AAATGGTCGGCCTGAAGAAAAAGAGTGCGGATGATGTGAAGAAGGTGTTTCACATGCTGGACAAGGACAAAAGTG  
GCTTCATCGAGGAGGATGAGCTGGGATTTCCTAAAAGGCTTCTCCCCAGATGCCAGAGACCTGTCTGCTAAAG  
AAACCAAGATGCTGATGGCTGCTGGAGACAAAGATGGGGACGGCAAAATTGGGGTTGACGAATTCTCCACTCTGG  
TGGCTGAAAGCTAAGAAGCACTGACTGCCCTGGTCTTCCACCTCTCTG



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**FIGURE 1189**

MSMTDLLNAEDIKKAVGAFSATDSFDHKKFFQMVGLKKKSADDVKKVFHMLDKDKSGFIEEDELGFILKGFSPDA  
RDLSAKETKMLMAAGDKDGDGKIGVDEFSTLVAES

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**FIGURE 1190**

CCGCGCCAGTCGCCTAGCAGGTCTCTACCGGCTTATTCTGTGCCGGATCTTCATCGGCACAGGGGCCACTGAG  
ACGTTTCTGCCTCCCTCTTTCTTCTCCGCTCTTTCTCTCCCTCTCGTTTAGTTGCCTGGGAGCTTGAAAGGA  
GAAAGCACGGGGTCGCCCCAAACCCCTTCTGCTTCTGCCCATCACAAGTGCCACTACCGCCATGGGCCTCACTAT  
CTCCTCCCTCTTCTCCCGACTATTTGGCAAGAAGCAGATGCGCATTTTGATGGTTGGATTGGATGCTGCTGGCAA  
GACAACCATTCTGTATAAACTGAAGTTAGGGGAGATAGTCACCACCATTCTACCATTTGGTTTTAATGTGGAAC  
AGTAGAATATAAGAACATTTGTTTCACAGTATGGGATGTTGGTGGTCAAGATAGAATTAGGCCTCTCTGGAAGCA  
TTACTTCCAGAATACCCAGGGTCTTATTTTTGTGGTAGATAGCAACGATCGTGAAAGAATTCAGGAAGTAGCAGA  
TGAGCTGCAGAAAATGCTTCTGGTAGATGAATTGAGAGATGCAGTGCTGCTACTTTTTGCAAACAAACAGGATTT  
GCCAAATGCTATGGCCATCAGTGAAATGACAGATAAACTAGGGCTTCAGTCTCTTCGTAACAGAACATGGTATGT  
TCAAGCCACTTGTGCAACACAAGGAACGGTCTGTATGAAGGACTTGACTGGCTGTCAAATGAGCTTCAAACG  
TTAAATGAAATTGGATATCTAACCAAGGACATGTTTGATAAAATTGGTCTAGGCTTGTTACAACAAAATTAGTTT  
GTATCTTGGTTATTAAACAGTATCTGGGACTGGTTTGGGCAGAAATATTAACTTATTTGTTGCCAATTATTGTT  
TACCGAGTATAATGTTGCTATTTAGCAATGTGCTTGGTTTTAAAGAAATTCTCCTTGGGAAAAAAGTATCCTCTT  
TTAATTTTACTTCCATAAGCGTAAATGCCTGGACATAGCTCTTGTGCAACCTTTAAATAAATTGTTTGGAGTGT  
TTTTTGAGCCCCAGACAAATAATGTTTTAAAGTTATCCCCTTGCTACTTTACTGATACCTTTATCATTCCTGAGA  
CAGTTTGCTAATTTAAAAATGTAGCATTCCATTTGTATTTATTTCTCTCCCTTGCCAAAAAGATTTTCTAATACT  
GCTTGTACCAGCCAGAGAAAGATCCAAACACTACTCAGCTCTCTGCACTGAGGAAATTTTCCCCCTACATTG  
ACTCCTGGCCTACATCAGCCAACTTAACCTTGGTGGGGTTTGGATTGATAGCCAATTAGTTCTGTGCTGGTTG  
CAAAGAATTGATATTTAGATGGTTTTTAATACTCAGCAGATTGCTTCTTTATATTGTGTCTTTTTATGTTGC  
ATGTTGCTTTTGTATCAGCCTGATTTTTTGCTCAGTATATGATAGTTCTGCTGATGTTTGTATTATGGGCAGA  
CATATCTTCATTAAGAGTTTTTGGAACACTACCAAATTCGATGAATACATTTCTTCTTAACCCATTGGAATT  
ATTCCTAATAAAATGATAAAATACGT

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**FIGURE 1191**

MGLTISSLFSRLFGKKQMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDRIR  
PLWKHYFQNTQGLIFVVDSDNRERIQEVADELQKMLLVDELDAVLLLFANKQDLPNAMAISEMTDKLGLQSLRN  
RTWYVQATCATQGTGLYEGLDWLSNELSKR

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**FIGURE 1192**

TCAGGAATCGGGATTAAAAGTTAACCAGCCAGCATCCTTTGCTATAAGGTTGAATGGCGCAAAAGGCAAGATTGA  
TGTATAGGTGCACAGCCCCTCTGGAGCCGTGGAGGAGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGT  
TCGCTTCATCCCTCATGAGAATGGTGTCCACACCATCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCC  
CTTCAAAGTGCGCGTTGGGGAGCCTGGACAAGCGGGGAACCCCTGCCCTGGTGTCCGCCTATGGCAGGGACTCGA  
AGGGGGCACCACAGGTATCCAGTCGGAATTCTTTTATTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTAC  
CATCGAAGGCCCATCCAAGGTTAAATGGATTGCCAGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCAT  
GGCTCCTGGTAACTACCTGATCAGCGTCAAATACGGTGGGCCCAACCACATCGTGGGCAGTCCCTTCAAGGCCAA  
GGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAGCCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAG  
GTCGTCTACAGAGACCTGCTATAGCGCCATTCCCAAGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGCG  
AGGGCTCTCAAAGGCCCTTGTGGGCCAGAAGAAGTTCTTCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGC  
TGCTGATCGGGGTCCATGGGCCACCACCCCTGCGAGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACA  
ACGTACATACGTCGTCAGGAGAGGGGCGATTATGTGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCA  
GCCCTTTTCATGTACAGTGCCTTAAACAGTTTTCTCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTGTGTG  
TTGTTTGTAAATTCATTTTATACAAAGCCCTCCAGCCTGTTTGTGGGGCTGAAACCCCATCCCTAAATATTGCTG  
TTGTAATATGCCTTCAGAAATAAGTCCTAGACTGGACTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAG  
CTTGTTCAGGGGGCTGAGAAGATCCTGAGTACACTAGGTGCAAAACCAGAACTCTTGGTGAACAGACCAGCCACT  
GCAGCAGACAGACCAGGAACACAATGAGACTGACATTTCAAAAAACAAAACCTGGCTAGCCTGAGCTGCTGGTTC  
ACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGATGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCAAT  
TGGCAAAGGAGATGACTTAAATCCGCTTAATCTCTTCCAGTGTCCGTGTTAATGTATTGGCTATTAGATCACT  
AGCACTGCTTTACCGCTCCTCATCGCCAACACCCCATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGT  
GGCAGCCGGGCACCCCTACAGAACTCAGAGGGCAGAGTGGCAGCCAGGCCCACATGTCTCTCAAGTACCTGTCCC  
CTCGCTCTGGTGATTATTTCTTGCAAGATCACCACAGGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTT  
CAAGTCCGTTTCAGTCCCTTCCCTTGGTCTGAAGAAATCTGCAAGTGGCGAGCAGTTTCCCACTTGCCAAAGATCC  
CTTTTAAACCAACTAGCCCTTGTTTTTAACACACGCTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAAATG  
TTTAAAGTGATCTCAGAGGGGGCCCATGGATTAACGCCCTCATCCCAAGGTCCGTCCCATGACATAAACTCCACA  
CCCGCCCCAGCCAACCTTCATGGGTCACTTTTTCTGGAAAATAATGATCTGTACAGACAGGACAGAATGAACTCC  
TGCGGGTCTTTGGCCTGAAAGTTGGGAATGGTTGGGGGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTACCA  
TTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAATCCAGAAATGAGGTGTAGGGAATTTGCCTGCCTTCTGTC  
AGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGTGAGGGACGTTGCCTGAGCCCAAATGTGTAGTGTGGTCTGG  
GCAGGCAGACCTTTAGGTTTTGCTGCTTAGTCTGAGGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGC  
GAGTGTGGGGGTAAAAGCCCACCCTACAGAAAGTGAACAGCCCGGAGCCTGATGTGAAAGGACCACGGGTGTT  
GTAAGCTGG

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**FIGURE 1193**

ATAGAGGACACGACCAAGATGGCGGCGGTGTCTGGCTTGGTGCGGAGACCCCTTCGGGAGGTCTCCGGGCTGCTG  
AAGAGGCGCTTTCACTGGACCGCGCCGGCTGCGCTGCAGGTGACAGTTCGTGATGCTATAAATCAGGGTATGGAT  
GAGGAGCTGGAAAGAGATGAGAAGGTATTTCTGCTTGGAGAAGAAGTTGCCAGTATGATGGGGCATACAAGGTT  
AGTCGAGGGCTGTGGAAGAAATATGGAGACAAGAGGATTATTGACACTCCCATATCAGAGATGGGCTTTGCTGGA  
ATTGCTGTAGGTGCAGCTATGGCTGGGTGCGGCCCATTTGTGAATTTATGACCTTCAATTTCTCCATGCAAGCC  
ATTGACCAGGTTATAAACTCAGCTGCCAAGACCTACTACATGTCTGGTGGCCTTCAGCCTGTGCCTATAGTCTTC  
AGAGGGCCCAATGGTGCCTCAGCAGGTGTAGCTGCCCAGCACTCACAGTGCCTTGCTGCCTGGTATGGGCACTGC  
CCAGGCTTAAAGGTGGTCAGTCCCTGGAATTCAGAGGATGCTAAAGGACTTATTAAATCAGCCATTCGGGATAAC  
AATCCAGTGGTGGTGTAGAGAATGAATTGATGTATGGGGTTCCTTTTGAATTTCCCTCCGGAAGCTCAGTCAAAA  
GATTTTCTGATTCCATTGGAAGCCAAAATAGAAAGGCAAGGAACACATATAACTGTGGTTTCCCATTTCAAGA  
CCTGTGGGCCACTGCTTAGAAGCTGCAGCAGTGCTATCTAAAGAAGGAGTTGAATGTGAGGTGATAAATATGCGT  
ACCATTAGACCAATGGACATGGAAACCATAGAAGCCAGTGTGATGAAGACAAATCATCTTGTAAGTGTGGAAGGA  
GGCTGGCCACAGTTTGGAGTAGGAGCTGAAATCTGTGCCAGGATCATGGAAGGTCCTGCGTTCAATTTCTGGAT  
GCTCCTGCTGTTTCGTGTCAGTGGTGTGATGTCCCTATGCCCTTATGCAAAGATTCTAGAGGACAACCTCTATACCT  
CAGGTCAAAGACATCATATTTGCAATAAAGAAAACATTAAATATTTAGTTTGGACTTGAATATCAAGTCGTTGAA  
ATTTATTTGAAATACTTGCTGGCACTGCACCTGGATTTGTACTGCAAGACCTGACTATTCATAACGGAAAACGAT  
TTCTAAAGCAACAGCAGGTATTTTGTACAGGGAAGTTTAAATGTGTTTGTGTATGGAAAACCTCTCCACTCTCCT  
CCCCTAGATGCCATGCTTCCTTTTGTCTGTTACGGTTGCCATGTTCTTTGAATAACAAATTATATAACATTTTAT  
CCTCTCTCACCACAAGGACAAAGTATGGATGTGGCAGAGTCCTCATGAAAGATGTATCCAAACAAGATAACTTAT  
ATGTATAAAATTAAAGCATATAATATACATTTACTGTTAGTTTGTGTTTGTATAAGGAATAAAGGAATTTCTAACAT

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**FIGURE 1194**

MAAVSGLVRRPLREVSGLLKRRFHWTPAALQVTVRDAINQGMDEELERDEKVFLLGEEVAQYDGAYKVSRLWK  
KYGDKRIIDTPISEMGFAGIAVGAAMAGLRPICEFMTFNFSMQAIDQVINSAAKTYMSGGLQPVPVFRGPNGA  
SAGVAAQHSQCFAAWYGHCPGLKVVSPWNSEDAGGLIKSAIRDNNPVVLENELMYGVFFFPPEAQSKDFLIPI  
GKAKIERQGTHITVVSHSRPVGHCLEAAVLSKEGVECEVINMRTIRPMDMETIEASVMKTNHLVTVEGGWPQFG  
VGAEICARIMEGPAFNFLDAPAVRVTGADVPMFYAKILEDNSIPQVKDIIFAIKKTLNI

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**FIGURE 1195**

GTCAGCCGCTGTCCCCTTAGCCGCGATGCCGCTGGAGAACCTGGAGGAGGAGGGTCTGCCCAAGAACCCCGACTT  
GCGTATCGCGCAGCTGCGCTTCCTGCTCAGCCTGCCCGAGCACC GCGGAGACGCTGCCGTGCGCGACGAGCTGAT  
GGCGGCCGTCCGCGATAACAACATGGCTCCTTACTATGAAGCCTTGTGCAAATCCCTCGACTGGCAGATAGACGT  
GGACCTACTCAATAAAATGAAGAAGGCAAATGAAGATGAGTTGAAGCGTTTGGATGAGGAGCTGGAAGATGCAGA  
GAAGAATCTAGGAGAGAGCGAAATTCGCGATGCAATGATGGCAAAGGCCGAGTACCTCTGCCGGATAGGTGACAA  
AGAGGGAGCTCTGACAGCCTTTTCGAAGACATATGACAAAACCTGTGGCCCTGGGTCACCGATTGGATATTGTATT  
CTATCTCCTTAGGATTGGCTTATTTTATATGGATAATGATCTCATCACACGAAACACAGAAAAGGCCAAAAGCTT  
AATAGAAGAAGGAGGAGACTGGGACAGGAGAAACCGCCTAAAAGTGTATCAGGGTCTTTATTGTGTGGCTATTTCG  
TGATTTCAAACAGGCAGCTGAACTCTTCCTTGACACTGTTTCAACATTTACATCCTATGAACTCATGGATTATAA  
AACATTTGTGACTTATACTGTCTATGTCAGTATGATTGCCTTAGAAAAGACCAGATCTCAGGGAAAAGGTCATTAA  
AGGAGCAGAGATTCTTGAAGTGTTCACAGTCTTCCAGCAGTTCGGCAGTATCTGTTTTCACTCTATGAATGCCG  
TTACTCTGTTTTCTCCAATCATTAGCGGTTGTGGAACAGGAAATGAAAAAGGACTGGCTTTTTGCCCTCATT  
TCGATACTATGTAAGAGAAATGAGAATTCATGCATACAGTCAGCTGCTGGAATCATATAGGTCATTAAACCTTGG  
CTATATGGCAGAAGCGTTTGGTGTGGTGTGGAATTCATTGATCAGGAACCTGTCCAGGTTTATTGCTGCCGGGAG  
ACTACACTGCAAAATAGATAAAGTGAATGAAATAGTAGAAACCAACAGACCTGATAGCAAGAACTGGCAGTACCA  
AGAAACTATCAAGAAAGGAGATCTGCTACTAAACAGAGTTCAAAAACCTTCCAGAGTAATTAATATGTAAAGCCA  
TGTAAC TAACAAAGGATTTGCTTTAGAGATAATTATTGGAATTTTATAGCTTACTTCACAATGTGCCCAGGTC  
AGCTGTATAAAATAAATACTGCATTGTGTTTC

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**FIGURE 1196**

M P L E N L E E E G L P K N P D L R I A Q L R F L L S L P E H R G D A A V R D E L M A A V R D N N M A P Y Y E A L C K S L D W Q I D V D L L N K M K K  
A N E D E L K R L D E E L E D A E K N L G E S E I R D A M M A K A E Y L C R I G D K E G A L T A F R K T Y D K T V A L G H R L D I V F Y L L R I G L F  
Y M D N D L I T R N T E K A K S L I E E G G D W D R R N R L K V Y Q G L Y C V A I R D F K Q A A E L F L D T V S T F T S Y E L M D Y K T F V T Y T V Y  
V S M I A L E R P D L R E K V I K G A E I L E V L H S L P A V R Q Y L F S L Y E C R Y S V F F Q S L A V V E Q E M K K D W L F A P H Y R Y Y V R E M R  
I H A Y S Q L L E S Y R S L T L G Y M A E A F G V G V E F I D Q E L S R F I A A G R L H C K I D K V N E I V E T N R P D S K N W Q Y Q E T I K K G D L  
L L N R V Q K L S R V I N M



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**FIGURE 1197**

GAGAAGCCATGAGCAGCAGTCTCTCGCAACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACCGGAACCAGCGC  
AAGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAAGTATGACCCCCAGAAGGACAAGTGC  
TTCTCGGGCACCCTCAGACTTAAGTCCACTCCCCGCCCTAAGTTGTGTGTGTGTGTCTTGGGGGACCAGCAGCAC  
TGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAAAAAGAATAAAAAA  
CTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATTCCACGAATC  
CTCGGCCCAGGTCTAAATAAGGCAGGAAAGTTCCTTCCCTGCTCACACACAACGAAAACATGGTGGCCAAAGTG  
GGTGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGTCACGTGAAG  
ATGACAGCCGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTCAATTGCTCAAGAAAACTGG  
CAGAATGTCCGGGCCTTATATATCGAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACATTGAATAA  
ATTCTATTACCAGTTCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1198**

GCTCAAGTGGCCAAGGCAAGATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACA  
AGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTAGAGTGGGGAAAAAGAAAGAAAACAAAGGGACCAG  
ATGCTGCCAGCAAACCTGCCACTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGAAGTTAGAGAGAATTA  
AAGACTATCTTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAGG  
AGGAAAGATCAAAAGTGGATGATCTGAGGGGGACCCCGATGTCAGTAGGAACCTTGGAAAGAGATCATTGATGACA  
ATCATGCCATCGTGTCTACATCTGTGGGCTCAGAACACTACGTCAGCATTCTTTTCATTTGTAGACAAGGATCTGC  
TGGAACCTGGCTGCTCGGTCCTGCTCAACCACAAGGTGCATGCCGTGATAGGGGTGCTGATGGATGACACGGATC  
CCCTGGTCACAGTGATGAAGGTAGAAAAGGCCCCCAGGAGACCTATGCAGATATTGGGGGGTTGGACAACCAAA  
TTCAGGAAATTAAGGAATCTGTGGAGCTTCCCTCTACCCATCCTGAATATTATGAAGAGATGGGTATAAAGCCTC  
CTAAGGGGGTCAATTCTCTATGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGCAAACCAACCT  
CAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACCTATTTCAGAAGTACCTAGGTGATGGGGCCAACTCGTACGGG  
AATTGTTCCGAGTTGCTGAAGAACATGCACCGTCCATCGTGTATTATGATGAAATTGACGCCATTGGGACAAAA  
GATAAGACTCCAATTCTGGTGGTGAGAGAGAAATTCAGCGAACAAATGTTGGAACCTGCTGAACCAGTTGGATGGAT  
TTGATTCTAGGGGAGATGTGAAAGTTATCATGGCCACAAACCGAATAGAACTTTGGATCCAGCACTTATCAGAC  
CAGGCCGCATTGACAGGAAGATTGAGTTCCCCCTGCCTGATGAAAAGACGAAGAAGCGCATCTTTCAGATTCACA  
CAAGCAGGATGACGCTGGCTGATGATGTAACCTGGACGACCTGATCATGGCTAAAGATGACCTCTCTGGTGCTG  
ACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGTAACAAATGAAGACT  
TCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTGTATCTCTAATGAACCA  
TGGCTGTCATCAGGAAAATGGTTGGGAGATTTCTCAGTCCCTGAAAGGGATGAGGCTGGGGGAGTTGCCAGAGG  
AATCCCTGTTCCCACTGATTTTTATTAGCAAAACATCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCCCATGG  
GTGGCCTGTTGGTCACTGTGCAGCAGTCTGCTTCCCAATAAAGCGTGCTCTTTCACAA

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**FIGURE 1199**

ATGCCTTCAAAGGAAAAGCAAGGGACACTCACCTTGCAAAACCATCAAACTATTCCACAGACGCCACATGAGC  
CCCCATTTATCTGACTTAAAAGAAGCAGGGTCTGCTGGGATTCTGAATCCTCTGGTTCCAGAGAGAGAAGCTCTTT  
CAAAGACTGGATTCTGGCCACAAAAGAAGGTTCTGCTTACTGGAATCAAGAGGTCAAAGATTTTTCTGAATCA  
TGCATCCACGGAGAAGAGCCCATTAGGGCTATTCCAGCAGACAGCAGTAAGGATGTCCATGAGCTTTATGTTGTT  
GTTGGGAGCTGGGATTCTACTCTTCCAGAAGAATATGACCTCAAAAGGAGCCACCACAGAACGAGCTCGGCACCC  
ATCTACGAATGTATTGCTAAGGATCATTGGGGATGGGGTGACCCAGAAGTGAAGTGGCTCCATGATCCATTAAAC  
AATCACCTGAAATCCACAGTGCCAGTCAACTAATGGGGCTTGGAGCCATCATTAGGTCACTGGAAAATGATATC  
TTCTGGAGGTTGATACTGGCTTACCATCCTGAGAGCAGAAGGCTTGAGGGAGGAACAGCCTCCTGGGCATGGA  
GGCACCTGCCATCCCACATCAAATCACAGAGCCATGCTTAAAAGGGCCAGGTGGATGACTTATGTGGAAGAAGTG  
AGCCGGGTGAGGATTTCTACTTCGAGAAACCTTGCTCGAAGCGCTTTCATCATTCTCTCTACACAACAAACCTT  
GAACCTTTAGAAGCAGCTCTTGGCACAGGAGCCTCCAACCCGTTTTTCAGCCGGCTTTCTCTACTTGTTCAT  
TCCATGATCACAGAAAACAGCTCCATTAAGACTCTTTTCAGGTCTACCAAAGAGCTAGTGATTGCACTCAATCGA  
TGTTTCTTCGGCATTACTCAAAGTGCAGCTACACTCAGCCCACAGCTTCACATCAGATTTATCAGCAGAGAACAA  
AAGAAGTACTTGAAATTGCCACTTACAACGTTTATGAGTAAACTGGAATCCAAAGTCTGGCCTCTAGCCAAGCGG  
TTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTTCTGTTGAAAC  
CCTCAGGAGTGGAAGAAATTGTTCAAACCTGTGCTGCCAGAGACTCTTCTTCCGATCAACCTGGAGCTCTAC  
GCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATAC  
TTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAACGAGGTGGCCGA  
ATCTTCCTTCAGGATATCAAGAAACAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATGGATGACAAAAAT  
GACCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGGC  
CACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGACAAGCACACGCTG  
GGAGACAGTGATAACGAAAGCTAA

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**FIGURE 1200**

MPSKEKQGTTLQNHQNYSHRRHMSPHLSDLKEAGSAGIRILWFQREKLFQRLDSGPQKKVPAYWNQEVKDFSES  
CIHGEEP IRAIPADSSKDVHELYVVVGSDSTLPEEYDLKRSHHRTSSAPIYECIAKDHWGWDPEVNWLDPLN  
NHPEIHSASQLMGLGAIIRSLENDIFLEVDTGFTILRAEGLREEQPPGHGGTCHPTS NHRAMLKRARWMTYVEEV  
SRVRISTSRNLARSAFIILSYTTNPELLEAALGTGASNPF SRLLVSHSMITENS SIKTLFRSTKELVIGPKD  
ARRDFQVVS RGSADFWRKLASSDGSICLLSIGKPELIRLIQLIK

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**FIGURE 1201**

ATGATCTTTAATTTTGCCCTGAATACCTTGGTTGCAATCACTGTGCTTGTATCCAAACGGCATTTCAGGAATAC  
ATACGACAACTGCCTCCGAATTTCCCTACAGAGATGATGTCATGAGGCCTGGAGAAGCCAGGAGTTTCCAAGCT  
GTGCTGCCACCCGAGCTCTGGATCCACCTGGCTGTGGTGGCCTGTGGCAATCGGCTGGAGGAGACGCTGGTCATG  
CTCAAATCAGCTGTGCTTTTAGCCACAGGAAGATCCAATTCCACATCTTCACTGAAGACTCTCTGAAGCCCGAG  
TTTGATAAGCAGTTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAACTACCCCATCACATTT  
TCTGTTGGAAACCCCTCAGGAGTGAAGAAATTGTTCAAACCCCTGTGCTGCCAGAGACTCTTCTCCGATCAAC  
CTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAAC  
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAA  
CGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATG  
GATGACAAAAATGACCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAA  
GAATTGGGTGGCCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGAC  
AAGCACACGCTGGGAGACAGTGATAACGAAAGCTAA

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**FIGURE 1202**

GTCCGCGTGTCGAGTGGCTCTTCCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG  
ATCACCAGGTGTTTGGCTTGGTCGGTTCCTATTTCTGCCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG  
GTGGCGTTCGCGACGCGGACATGCAGCGGGCCCACTATAAGACGGACTGGCACCGCTACAACCTGCGGCGGAAG  
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGCGGGCGCAGCGGGCCGTCGCGGAGGAG  
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGCAGTAAGAAGTTGCCTCTTTCAACGCCTACGAGAACCAC  
CTCAAGTCCCGCGCTACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT  
GAAAAGAACTTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGCC  
ATCAAGGCCACGCGTCCATGTCTCCAAGAAGGCGCCCCAGCGCCTGCAAAGGAGGCCAGGAATGTCGTGGCC  
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGGCTCCAGTGGTTTGAACAG  
CAGGCCAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGG  
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA  
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGCCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT  
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCCTGATATAGAATATCTT  
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAGTTGGTGTGGCAAGATTTGCTTGTGGTGAACGAG  
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA  
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGGAG  
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG  
CCTTCTGGTGCCAGAGTGGGTCATCGCTCCTTGATGAGATACTACAAACAGCGATTGGCTTGTCAAGAGCTGTG  
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA  
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAAGGATGAAATCAAAATGGATGCTGAAGACAGGA  
ATGAAGAACAATGCCACCAAGCAGATGCACTTTGGGTCCTAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA  
TCATCTCCTGCCCAAGTTTCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCCCTTTTGCTGC  
TACITCATTTCGTTCTGACCTAATAATAAAGTTAGAACCAT

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**FIGURE 1203**

GCAGACGCCATTATCCTCTGTTTCTCTGCTGCACCGACCTCGACGCCTTGCCCTGTGGCCCACTTGTTCACTGACT  
ATAGGCTACTGCAGCACTGGGGTGTGAGTTGTTGGTCCCACCCAGAACGCTTCAGTTCTGCTCTGCAAGGATATA  
TAATAACTGATTGGTGTGCCCCATTTAATAAAAGAATATGTAACTGAACAGCCGGAAGAAACCTTCCCGAACACT  
GAAACCAATGGTGAATTTGGTAAACACCCTGCAGAAGATATGGAAGAGTAACAAGCATTATAAAGATCTAGAAAC  
ACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGACCAAGAATGCTGGGGCAGTGATTGGAAAAGGAGGCAAG  
AATATCAAGGCTCTCCGTACAGACTACAATGCCAGTGTTCAGTCCCAGACAGCAGTGGCCCCGAGCACATATTG  
AGTATCAGTGCTGGTATTGACACAATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGGAAGAGTACCAACAC  
TATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTC  
GAAGGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTCCAGGAATGCTGTCCTTAT  
TCCACTGACAAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTTGTAGAGTGCATAAAGATCATCCTTGATCT  
TATATATGAGTCTCCCATCAAAGACGTGCACAGCCTTATGATCCCAATTTTTATGATGAAACCTATGATTATGG  
TGGTTTTACAATTATGTTTGATGACCGCTGTGGACGCCAGTGGGATTTCCCATGCGGGGAAGAGGTGGTTTTGA  
CAGAATGCCCTCCTGGTCAGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTATGATGATATGAGCCCTCGTCA  
AGGACCACCTCCACCTCCTCCAGGACAAGGTGGTGAGGGTGGTAGCAGAGCTCGGAATCTTCCTCTTCCTCCTCC  
ACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGGGAGACCTGGAGACTGTTACCATGGCATGGT  
TGGTTTCAGTGCTGATGAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGGCTTATGA  
ACCACAGGGTGGCTCCAGATATGATTATTCCTATGCAGGGGGTCTGGCTCATATGGTAATCTTGGTGGACTTAT  
TATTACTACACAAGTAACGATTCCCAAAGATTTGGCTGGATCTATTATTG

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**FIGURE 1204**

ATGAATAAGGAGAATCACTCCTTGATAGCTGAGTTCATCCTCACAGGATTTACATATCATCCAAAGCTGAAGACT  
GTTCTGTTTGTGGTGTTCTTTGCCATCTATCTGATCACCATGGTGGGGAACATTGGTTTGGTGGCATTGATTTAT  
ATAGAGCAACGTCTTCACACACCAATGTACATATTTTAGGCAACCTAGTTCTGATGGATTCCCTGCTGTTCTCT  
GCTATTACTCCCAAGATGTTAGAGAACTTCTTTCTGAGGACAAAAGGATTACCCGTATGAATGTATGGCACA  
TTTTATTTTCTCTGTCTTGCTGAAACTACAGACTGCTTTCTTCTGGCGGCAATGGCCTATGACTGCTATGTGGCC  
ATATGCAACCCACTGCAGTACCACACCATGATGTCCAAGACACTCTGCATTGAGATGACTGCAGGAGCCTACCTA  
GCTGGCAACCTGCATCCCATGATTGAAAACCTTTTGCCAGAGTAGCAGCCAACTTGAGGTTGCCCCGATTCT  
GACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAATTTATGCAAGGAAATGCTCTATGTACAGTGAAG  
TGTGATGAGAAAGTGAAAGTGTTTCTGTCCGTGGAACATCCTTTGATGCTGCAGCAACAAGTGGCGGTAGTGCC  
AGTTCAGAAAAGGCATCAAGTACTTCACCAAGTGGAAATATCAGAGTGGCTTGACCAGAAATTAACAAAAAGTGAT  
CGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGAAGTCTATCCATCTTATAACACACTCATTCTTCAG  
ACACATCACAATGCACATGATCAGATTACAGCTTTCTTTACCTTAAGGATGTCTTCAACCACCACAAGCCCTTC  
CAAATTCCTACGTAGATAAAATTTGGCTTTTCTAG



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**FIGURE 1205**

ATGATCAGGTGTGATAAGTGCTGTAATGAAGGCAATTACAAGGAGAGGATATTTGAAATCATTGCTGTGGAGGGT  
GAGAGTGCGAACAAGGAAGTTGTGGTAGCATTGCTAGACAGTTTGGAGAGCCCAGCTCCAGAGCTTAAGGTTATT  
GCTGAATTAAGCCACGCCCTCATTGCTACGATTCAGAGTACCCTGGTAATAGCTGAGCATGCAAATGATTCCCTA  
GCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCCTTGAGGTTGAAGTGTCTGCTTAGTAGCTGGAACC  
AAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAAGTTCTGGTGGCTCAGCATGATGTG  
TACAAAGGCCTACTTCCAGGTGAGGTTTTCCAGTAG

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**FIGURE 1206**

TCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGGTCGAGCTGTGCAGTTTTAGCGGGTACAAG  
ATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGGTTTTCCAGTTTCTTAATGCGAAATGCGAG  
TCGGCTTTCCTTTCCAAGAGGAATCCTCGGCAGATAAACTGGACTGTCCTCTACAGAAGGAAGCACAAAAAGGA  
CAGTCGGAAGAAATTCAAAGAAAAGAACCCGCCGAGCAGTCAAAATCCAGAGGGCCATTACTGGTGCACTCTCTT  
GCTGATATAATGGCCAAGAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAGCTATCAGGGCTGCT  
AAGGAAGCAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAGGCACCTACAAAGGCAGCA  
CCTAAGCAAAAGATTGTGAAGCCTGTGAAAGTTTCAGCTCCCCGAGTTGGTGGAACGCTTAAACTGGCAGATTA  
GATTTTAAATAAAGATTGGATTATAACTCT

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**FIGURE 1207**

MKVELCSFSGYKIYPGHGRRYARTDGKVFQFLNAKCESAFLSKRNPRQINWTVLYRRKHKKGQSEEIQKKRTRRÄ  
VKFQRAITGASLADIMAKRNQKPEVRKAQREQAIRAAKEAKKAKQASKKTAMAAAKAPTKAAPKQKIVKPKVSA  
PRVGGKR

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**FIGURE 1208**

GCTCCTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCCGCCATGTCGCTAGTGATCCCTGAAAAGTTCCAGC  
ATATTTTGCAGTACTCAACACCAACATCGATGGGCAGCGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTG  
TGGGCCGAAGATATGCTCATGTGGTGTTGAGGAAAGCAGACACTGACCTCACCAAGAGGGCGGGAGAACTCACTG  
ATGATGAGGTGGAACGTGTGATCACCGTTATGCAGAATCCACGCCAGTACAAGATCCCAGACTGGTTCTTGAACA  
GACAGAAGGATGTAAAGGATGGAAAATATAGCCAGGTCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGACC  
TGGAGCGACTGAAGAAGATTCGGGCCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACA  
CCAAGACCACTGGCCGCCGTGGCCGCACCGTGGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGCTGTGTAA  
TAAATAGTTTATATACC

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**FIGURE 1209**

ACCGCGGGGCTGGGTCCCAGCCGGCAGCAGAGAGCTGGTCGCCCCACCACCCCAAGCTACTGCTGCCGCTGGCT  
ATTTCCCGCGGGGCGGTACGTGGTGGTGGCTGAGAGCCCCCTGCCGCTGGCGAGTGGGAGCTGTGCCGCGCAG  
TCCCGGGCCCTGCTTACGAGGAGGAGGGCACTCCCCCTGCGCTACCAGCGTCTGGTGCCCTCTCGCAGCCGCATCG  
TGCGGACGCCCTCCCTGAAGGACAGCCCGGAGGCCGGGGGCTCAGCAAGGCCCGGTGTCCGAGGAGCTCAAGT  
GGTGGCAGGAGCGTGACGCCTCCGGAGCACCCGCCCCCACTCACTGGACCGCCAAGGAGCTTTCCGGGTGAGGA  
GCCTGCCCTTGGGAGAGAGGGCTTCGGGCGAGCCCTGGGACCCCGGGCACAGGTGCCACAGTGTGTGTGCTGC  
GGAGATCGCTGACGGGGCCCTGTGCAAGTCTTTGTACCTGAAAAAGGAGAGATCATCAGCCAGGTGTA<sup>A</sup>CTCT  
GCGCCCCACGCTGGAAAAA<sup>A</sup>CTGTTTCATAGAGGGCTGGGTGAGACCCCCCA<sup>C</sup>CCCTGAGTGCCTCTTT<sup>C</sup>CAG  
CTTCCCCATCCCCATCGCAGGCCGATGACCTGGAGCTGAGACCTTTTATTATTTTTTTTTTACACGACTTTTT<sup>T</sup>C  
AGAAGCCCTGACCTAAGGATTATATATGTGGATTGTCTCAATACCCCTGTGATATGATTATGTTTATCCCC<sup>C</sup>  
AGAGTTTGGCCTACTGGACTTAAGGCCTTGCCTGTCTGACTGACAGCCTCTATCTCCTTATATAAGACAAGTGGC  
AGGGGACGAGTGAAGCAGAGTGGGCCACCTTGGGAGTTCTCCAACACTCTGTGCTCTGGTTCTAAGAAATTCCT  
GGGGAATGCCCTGGCCCTCTGTCCACTATTGCTGGAGGCTGGACATGGTACATACTCATGCACATGACTCT  
CCCCATTTC<sup>C</sup>CAGGTCTCTGGGTACCCAGCCTGGGCTGGGGGAGAATCTCTTCCCCCTTTCTAATGTGCTCTG  
TGATGCACACACCAAGTGGTAGGTCAAAGGTCAGTATATCCCGGTGGTGTATTGTCTTGCTAGACCCCTGCTATTT  
TCCTGACCCCTAAATCCTCTTTAGGGACCCAGTCACTATACCCCTGTCTATGCCCTGTGGGCTCCCAGACCCCTG  
AGCTTTGAGTCAGTGGCATCACGTTTGTAGCCTCAGGGGCTCCGCTGGGGGCTGATCCATGCTTGTGGTTAGT  
GGACAGCAGCCACCCTTTGACAGCTACCTCTGGGCATCTCAAGGGCTTGACAGCCCACTGCTCCTTCTAACATTT  
TGTTTGTGTTGTTTGTGAGATGGAGTCTCGCTCTGTGCCCCAGGCTGGAATGCAGTAGCAAGATTTCCGGCTCACTG  
CAACCCCGTCTCCCGGGTTCAAGCGAATCTCCTGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCAAGCACCA  
CCATGCCTGCTAATTTTTTATTTTAGTAGAGATGGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAACTCCTGA  
CCTCAAGTGTACACCTGCCTTGGCCTTTCAAAGTGTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTTCT  
AACGTTTTTTCATCATAGTCCCAAAAACCAATACTTTACAAGTGGTTTTGGAAAGGCACCACTTTTGTGGC<sup>ATGT</sup>  
TCTGGTTGGGAGAGGGAGTCACAGTTCCTACTCCCCCACCAGCTATGCTTCTGCTCTGAGAAGGTGGTTATTTA  
TACAAACATGGACATACTCACTCCCAAGGGCTGATGAGATGCTGAATTTCTTTGGGGGCATTCAATTAATTGTCC  
CAGCTGCAGCGACTGGAGCAAGTCTGGAAGCTGCCTGTGCTAAGACCACCCAGCTGTCCCTGGGTTCTCATCCTA  
GGGCCTTCTTTGCTTCCAGGTGAGGGGACCTGCTTCAATGAGAAAGCAACTGAATTGAGGCTAGGAGAGGTAGGG  
AGAGCTGAGTTCTGACTTCACCTGTGCAGAACTCTCTGCCCCATGTTACCTGGACTGGAACAGACTGTGAATAT  
AGCAGAAGGTTCCAAGA<sup>A</sup>CTCTGGTGTCTGACCTAGAAGAGGCACAGTTCTCTCTACTGGAAAGAAAACGATGTA  
GCCGATTGCACAAGGTGCCAAGGGAAGACCCAGGATGGCCCATCAAAGGAACCTGGGGGAGGATGCAGGAGGCT  
GAAGGGATGCACCTGGCATTCTCTCACTGTGCTCTTACCGCATCAGCAACCCCCAACTTTTGGGCCTACTCTGC  
CCCCATGCGTGAATACCTGCTTGGATGCTGTGCTTTTCCGGTTTGTCTCTAAGCCCCCTTTCTCCAGGGCATGT  
TGGTTTCCCTGGCCTCTCAGTGTCTTA<sup>A</sup>CTGGAGCCAGAGTGCCTTGTACTGAGCCAGGAGACGGCTGAGCACT  
GGCCCTCCACACCTAAGCGTCCTTTACATTA<sup>A</sup>CTTATTGGTCTTGTATAACACCTGGTGCCATTGCCAAGTGGCT  
GTGTCTCAGCTACAGAGCTGGAATTGTGTGGGGTTTAGTGCTAAATACTTCAATAAAGTCTGTTTTTTGTGATT  
GGCTG

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**FIGURE 1210**

MFWLGEGVTVPTPPTSASYASALRRWLFIQTWYISLPRADEMLNFWGHSLIVPAAATGASLEAACAKTTQLSLGSH  
PRAFFASRSGDLLQ

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**FIGURE 1211**

ATGAACTCTTCTACGAATGTGGGAATGCAAAAAGGAATTGAAGGAAGGGAAAAAACTGAAGCCTGGAAAAACAT  
ATTAATCCCAGTGCTTTTACGCCCCGAAACAAAGAGACTAAGCCAGACTATGGGGGAAAGGGAGATAAGAAGGAT  
CCTGGAACTTTAAAGAGGGAAAGAGTGAGATTGAGAAATCGCCAGGACTGGACTTTAAGGGACGTCCTGTGTGACG  
CACAAGGGACTGGCACACACAGACACACGAGACCGAGGAGAAACTGCAGACAAATGGAGATACAAAGACTTAGAA  
GGACAGCTCCTTTACCTCATCTACTTGTCCAGAAGTGTGTGGATCAGAACCCACCCCATGCCACTATTAGA  
GGCAGCCACGGAGGACGGAAAGTGCTTTGGTTTCTCCGGACAGCAGTAGGCCAGCTCGGTTTCTGAGGCACACT  
GGGAGGTCTCGCGAATTGAGAGATCCACTCTGGAGGAACCAACCTTCAGCCTCTCCAGAGAAGGAGGAGTGTG  
CCCGTGTGAGACTAGCTCGCCCAACAGAGCCGCCAGCCCGCTCGGACATCAATGGGGCCCGCGTGAGACCTGAG  
CAAAGACCAGCAGCCAGGGGCTCTCCGCGTGAGATGATCAGAGATGAGGGGTCTCAGCTCGGTCAAGATGTTG  
CGTTTCCCTTCGGGGTCCAGCTCTCCCAACATCCTTGCCAGCTTTGAGGGGAAGAACAGAGTATGGGTGATCTCA  
GCCCCCTCATGCTCGGAAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGAGCTGGCG  
GAGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGGCAAGGTGAGAAGGATCACCAGC  
GAGGGCCAGATCCTGGAGCAGCCCTGGACCCTAGCCTCATCCCTAAGCTGATGAGCTTCTGAAGCTGGAGAAG  
GGCAAGTTTGGCATGGTGCTGCTGAAGAAGACGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAA  
GCCATGTACGAGGTGATCGACCAAGGCCCATCCGTAGGATCGAGAAGATCAGGCAGAAGGGCTTTGTCCAGAAA  
TGTAAGGCCTCTGGTGTAGAGGGCCAGGTGGTGGCGGAGGGGAATGACGGTGGAGGGGGAGCAGGAAGGCCAAGC  
CTGGGCAGCGAGAAGAAGAAAGAGGACCCAAGGAGAGCACAAGTCCCACCAACCAGAGAGAGTCGGGTGAAGGTC  
CTGAGAAAACCTGGCCGCCACTGCACCAGCTTTGCCCAACCTCCCTCAACCCCCAGAGCCACCACCCTTCCTCCT  
GCCCCAGCCACAACAGTGACTCGGTCCACGTCCCGGGCGGTAACAGTTGCTGCAAGACCTATGACCACCCTGCC  
TTTCCCACCACGAGAGGCCCTGGACCCCTCACCCTCCACAGGCCCCCTACAACCACTGAGGTGATCACTGCC  
AGGAGACCCTCAGTTTCAAGAAATCTTTACCTCCATCCCGGAAGGATCAGCACAGGGAGAGGCCACAGACAACC  
AGGAGGGCCAGCAAGGCCACCAGCTTGGAGAGCTTCAAAATGCCCTCCCAACCACCTCTCAGAACCAGCACA  
AGGGCTGCTGGCCAGGCCGTTTCCGGGACAACCGCATGGACAGGCGGGAACATGGCCACCAGACCCAAATGTG  
GTGCCAGGTCTCCCAAGCCAGCAAGGAGAAACCTCCCAAAAAGAGGGCCAGGACAAAATCTTAGTAATGAG  
TATGAGGAGAAGTATGACCTCAGCCGGCCTACTGCCTCTCAGCTGGAGGACGAGCTGCAGAGTCCCAAGAAGTCA  
GTGGCCGACCTGCTGGGGTCTTTGAAGGCAACGAGACTCCTTCTGATCACTGCTCCCAAGGCTGAGAACAAT  
ATGTATGTGCAACAACGTGATGAATATCTGGAAAGTTTCTGCAAGATGGCTACCAGGAAAATCTCTGTGATCACC  
ATCTTCCGGCCCTGTCAACAACAGCACCATGAAAATCGACCACTTTCAGCTAGATAATGAGAAGCCCATGCCAGTG  
GTGGATGATGAAGACTTGGTAGACCAGCGTCTCATCAGCGAGCTGAGGAAAGAGTACGGAATGACCTACAATGAC  
TTCTTCATGGTGCTAACAGATGTGGATCTGAGAGTCAAGCAATACTATGAGGTACCAATAACAATGAAGTCTGTG  
TTTGATCTGATCGATACTTTCCAGTCCCGAATCAAAGATATGGAGAAGCAGAAGAAGGAGGGCATTGTTTGCAAA  
GAGGACAAAAGCAGTCCCTGGAGAACTTCCTATCCAGGTTCCGGTGGAGGAGGAGGTTGCTGGTGATCTGCT  
CCTAACGATGAAGACTGGGCCTATTCACAGCAGCTCTCTGCCCTCAGTGGTCAGGCGTGCAATTTTGGTCTGCCG  
CACATAACCATTCTGAAGCTTTTAGGCGTTGGAGAGGAAGTTGGGGGAGTGTTAGAACTGTTCCCAATTAATGGG  
AGCTCTGTTGTTGAGCGAGAAGACGTACCAGCCCATTGGTGAAAGACATTCGTAACCTATTTTCAAGTGAGCCCG  
GAGTACTTCTCCATGCTTCTAGTCGGAAAAGACGGAAATGTCAAATCCTGGTATCCTTCCCAATGTGGTCCATG  
GTGATTGTGTACGATTTAATTGATTCGATGCAACTTCGGAGACAGGAATGGCGATTACGAGTCACTGGGGATG  
CGCTGCCCAGAAGATGAGTATGCAGGCTATGGTTACCATAGTTACCACCAAGGATACCAGGATGGTTACCAGGAT  
GACTACCGTCATCATGAGAGTTATCACCATGGATACCTTACTGA

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**FIGURE 1212**

MTWRMGPRFTMLLAMWLVCGSEPHPHATIRGSHGGRKVPLVSPDSSRPARFLRHTGRSRGIERSTLEEPNLQPLQ  
RRRSVPVLRRLARPTEPPARSDINGAAVRPEQRPAARGSPREMIRDEGSSARSRLRFPSSSSPNILASFAGKNR  
VWVISAPHASEGYRLMMSLLKDDVYCELAERHIQQIVLFHQAGEEGGKVRITSEGQILEQPLDPSLIPKLMSF  
LKLEKGFVGMVLLKKTLLQVEERYPPVVRLEAMYVIDQGPRIIRIEKIRQKGFVQCKASGVEGQVVAEGNDGGGG  
AGRPSLGSEKKKEDPRRAQVPPPTRESRVKVLRLAATAPALPQPPSTPRATTLPPAPATTVTRSTSRAVTVAARP  
MTTTFAPTTQRPWTPSPSHRPPTTTEVITARRPSVSENLYPSPRKDQHRERPQTTRRPSKATSLESFTNAPPTTI  
SEPSTRAAGPGRFRDNRMDRREHGHDPNVVPGPPKPAKEKPPKKAQDKILSNEYEEKYDLSRPTASQLEDELQ  
VGNVPLKKAKESKKHEKLEKPEKEKKKKMKNNENADKLLKSEKQMKKSEKKSKEKEKSKKKKGKTEQDGYQKPT  
NKHFTQSPKKSVDLLGSFEGKRRLLLITAPKAENMYVQQRDEYLESFCKMATRKISVITIFGPVNNSTMKIDH  
FQLDNEKPMRVVDDDLVDQRLISELRKEYGMTYNDFMVLTVDVLRVKQYYEVPITMKSVDLIDTFQSRIKDM  
EKQKKEGIVCKEDKKQSLENFLSRFRWRRRLLVISAPNDEDWAYSQQLSALSGQACNFGRLRHITILKLLGVGEEV  
GGVLELFPINGSSVVEREDVPAHLVKDIRNYFQVSPEYFSMLLVGKDGNVKSWYSPMWSMVIVYDLIDSMQLRR  
QEMAIQQSLGMRCPEDEYAGYGYHSYHQGYQDGYQDDYRHHESYHHGYPY



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**FIGURE 1213**

TTCTGGGAAGGGAGAATGGCGGCGCCCGGGCTGCGGCTGGGAGCGGGAAGACTCTTTGAAATGCCTGCGGTGCTA  
GAGCGACTGAGCCGCTATAATAGCACGTCCCAAGCTTTTGCTGAGGTGCTGCGGCTGCCGAAGCAGCAGCTGAGG  
AAGCTGCTGTACCCGCTGCAGGAAGTAGAGCGGTTCTTCGCCCCCTACGGGAGGCAAGACCTTCACCTGCGTATC  
TTTGACCCAAGCCCGGAGGACATAGCCAGGGCGGACAACATCTTCACGGCCACTGAACGGAACCGCATCGACTAC  
GTCAGCTCCGCGTCCGTATCGACCAGCCCCGGACCTTCGCGGCCAGAGGTGTGTTTATAGGCAGAAGCAAT  
GTTGGAAAATCATCTCTAATCAAGGCTTTATTTTCACTGGCCCCCTGAGGTTGAAGTCAGAGTCTCCAAAAACCA  
GGACACACAAAGAAAATGAATTTTTCAAAGTTGGAAAACATTTTACAGTGGTGGACATGCCAGGTTATGGCTTT  
AGAGCACCTGAAGATTTTGTGACATGGTAGAGACCTATCTAAAAGAACGAAGGAACCTGAAGAGAACATTTTAA  
TTAGTGGATAGCGTTGTTGGAATCAAAAAACAGACAATATTGCCATAGAAATGTGTGAAGAATTTGCATTACCT  
TATGTGATTGTATTAACAAAAATTGACAAATCTTCCAAGGGACATCTTTTAAACAAGTGCTTCAGATCCAGAAA  
TTTGTTAACATGAAACTCAAGGATGTTTTCTCAGTTGTTTCCGTGAAGTGCTGTGACCTTTTCTGGAATCCAC  
CTGTTGAGATGCTTTATAGCCAGTGTACAGGAAGTCTTGACTAATGGTTCCCGGTTTAGCTGAAGATTCAAAAA  
AAAAAAAAAAAAAGCTTTATGCTAACTGGAGTTAAATACCTAGAGAATTTCAACATTGTTTTAAATGTTGTGCATC  
TGTAACCTCAGGAGGATCACTTGAGCTTTAAACCTGTGCCCTTCTCGAAACAAGAATTTGTGCCTGAGGTGAAAA  
AAGTTTGTAAGTTATTGAATTATGGTGTTCATTAGAACAGCTACTAGCTGATTCCCCTATTTTAAACAACTGACA  
AGAGCACATCCATAAAATGAAAACCTGTTACAACATGTACAGAAGGGTTTGACGTTTTATTGGGCTTTTGTCTT  
TTAAAGAATATGTCTACTATGGGTATTTTTTTTTTAAATGTTAAATGGGCTAGGTAAAAGGGGGCTGCTTTTCT  
GTTAAGCATCGATAGGTAAGTTGATGGATAAAAGTTACTATGTAAGCCTATTTTTTTGAGTCCTTATTGAAATAT  
TGAAAACATTCTTGATAAAATGTGTTAGTCCATGTTGGAAACAACCGAAAGAACAGAATTCAGTTCTAGTTCG  
ATGTTTATTATATATGTTGGATCTTGGGCAACTTACTTGATTTCTCGGAAATTCATTTGTTACTGTAAACGTGAA  
AGCTATTAAGATTCAAATGAATGGTTTTACAGCAGGTAACATGTGAGAAGACAGCTACATATTGTAAAGCCAAA  
CCAACAAAGAAATATAGCAAAATTCACAGGTAGATTTATTACAAGAAATGTCCTTTTCATGGGGGAAGTAACATTT  
TCACTAGTGAAAAAGCAAAAAACAAAAATAGCTTTAAGTGAGAAAACATAATT

**FIGURE 1214**

[illegible]

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**FIGURE 1215**

MLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQSV  
EHFTKYFTEAGLKELSEYVRNQQTIGARKELQKELQEOMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSVM  
STVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTLLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEEP  
ILKWKYDAHVAKGKSVFLEQMKKFVEWLKNAEESESEAEEGD

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## FIGURE 1216A

GGCACGAGGGATCGGCGGAGCTCCACCTCCGCTTACAGCTCGCTGCCGCCGTCCTGCCCCGCGCCCCAGGAGA  
CCTGGACCAGACCACGATGTGGAAACGCTGGCTCGCGCTCGCGCTCGCGCTGGTGGCGGTGCGCTGGGTCCGCGC  
CGAGGAAGAGCTAAGGAGCAAATCCAAGATCTGTGCCAATGTGTTTTGTGGAGCCGGCCGGGAATGTGCAGTCAC  
AGAGAAAGGGGAACCCACCTGTCTCTGCATTGAGCAATGCAAACCTCACAAGAGGCCTGTGTGTGGCAGTAATGG  
CAAGACCTACCTCAACCACTGTGAAGTGCATCGAGATGCCTGCCTCACTGGATCCAAAATCCAGGTTGATTACGA  
TGGACACTGCAAAGAGAAGAAATCCGTAAGTCCATCTGCCAGCCCAGTTGTTTGCTATCAGTCCAAACCGTGATGA  
GCTCCGACGTCGCATCATCCAGTGGCTGGAAGCTGAGATCATTCCAGATGGCTGGTTCTCTAAAGGCAGCAACTA  
CAGTGAAATCCTAGACAAGTATTTTAAGAACTTTGATAATGGTGATTCTCGCCTGGACTCCAGTGAATTCCTGAA  
GTTTGTGGAAACAGAATGAACTGCCATCAATATTACAACGTATCCAGACCAGGAGAACAACAAGTTGCTTAGGGG  
ACTCTGTGTTGATGCTCTCATTGAAGTGTCTGATGAAAATGCTGATTGGAACTCAGCTTCCAAGAGTTTCTCAA  
GTGCCTCAACCATCTTTCAACCTCCTGAGAAGAAGTGTGCCCTGGAGGATGAAACGTATGCAGATGGAGCTGA  
GACCGAGGTGGACTGTAACCGCTGTGTCTGTGCCCTGTGGAAATTGGGTCTGTACAGCCATGACCTGTGACGGAAA  
GAATCAGAAGGGGGCCAGACCCAGACAGAGGAGGAGATGACCAGATATGTCCAGGAGCTCCAAAAGCATCAGGA  
AACAGCTGAAAAGACCAAGAGAGTGAGCACCAAAGAGATCTAATGAGGAGGCACAGACCAGTGTCTGGATCCCAG  
CATCTTCTCCACTTCAGCGCTGAGTTCAGTATACACAAGTGTCTGTCTACAGTCGCCAAATCACCAGTATTGCTT  
ATATAGCAATGAGTTTTATTTTGTATTTGTTTTGCAATAAAGGATATGAAGGTGGCTGGCTAGGAAGGGAAGG  
GCCACAGCCTTCATTTCTAGGAGTGCTTTAAGAGAACTGTAAATGGTGTCTGCGGCTGGAGGCTAGTAAGGAA  
ACTGCATCAGGATTGAAAGAGGAACAGACCCAAATCTGAACCTCTTTTGAAGTTTACTGCATCTGTCTCAGCAGGCTG  
CAGGGAGTGCACAGATGCCAGAGAGAACTTAGCAGGGTGTCCCGGAGGAGAGGTTTGGGAAGCTCCACGGAGA  
GGAACGCTCTCTGCTTCCAGCCTCTTTCCATTGCCGTGAGCATGACAGACCTCCAGCATCCACGCATCTCTTGTT  
CCCAATAACTGCCTCTAGATACATAGCCATACTGCTAGTTAACCAGTGTCCCTCAGACTTGGATGGAGTTTCTG  
GGAGGGTACACCCAAATGATGCAGATACTTGTATACTTTGAGCCCCCTAGCGACCTAACCAATTTTAAAAATAC  
TTTTTACCAAAGGTGCTATTTCTCTGTAAACACTTTTTTTTTTGGCAAGTTGACTTTATCTTCAATTATTATCA  
TTATATTATTGTTTTTAAATATTTTATTTCTTGACTAGGTATTAAGCTTTTGTAAATTATTTTCAAGTATCCCA  
CCACTTCATAGGTGGAAGGAGTTTGGGGTCTTCTGGTGCAGGGGCTGAAATAACCCAGATGCCCCACCCTGC  
CACATACTAGATGCAGCCCATAGTTGGCCCCCTAGCTTCCAGCAGTCCACTATCTGCCAGAGGAGCAAGGGTGC  
CTTAGACCGAAGCCAGGGGAAGAAGCATCTTCATAAAAACTTTCAAGATCCAAACATTAATTTGTTTTATTTA  
TTCTGAGAAGTTGAGGCAAATCAGTATTTCCCAAGGATGGCGACAAGGGCAGCCAAGCAGGGCTTAGGATATCCCA  
GCTTACCAATATGCTCATTGACTAAGTAGGAGGTGAGTTGGCCCTGTCTCTTTTCTGACCTCAGTTT  
CCTCAGTGAGCTGGTAAGAATGCACTAACCTTTTGATTGATAAGTTATAAATCTGTGGTCTGTATCATTTGGTC  
CAGAGGGGAGATAGGTTCTGTGATTTTCTCTCTATAGAATAAATGAAATCTTGTACTAGAACAAGAA  
ATGTCAGATGGCCAAAAACAAGATGACCAGATTGATCTCAGCCTGATGACCCTACAGGTCGTGCTATGATATGG  
AGTCTCATGGGTAAAGCAGGAAGAGAGTGGGAAAGAGAACCACCCACTCTGTCTTCATATTGCAATTTATGT  
TTAACCCTCCGGCTGGAAATAGAAAGCATTCCCTTAGAGATGAGGATAAAAGAAAGTTTCAGATTCAACAGGGGGA  
AGAAAAATGGAGATTTAATCCTAAACTGTGACTTGGGGAGGTGAGTCATTTACAGTTAGTCTGTGTCTTTTCGAC  
TTCTGTGATTATTAACCCCACTCACTACCTGTTTCAGATGCATTTGGAATACCAAAGATTAAATCCTTGACATA  
AGATCTCATTGTCAGAAAGCAGATTAAAGACCATCAGAAGGAAATTAATTTAGGTTGTAATGCACAGGCAACTGTG  
AGAACTGTTGTGCCAAAAATAGAATTCCTTCTAGTTTTTCTGTTCTCATTGAAAGGAGAAAAATCCACTTTG  
TTTAGCATTTCAAGCTTTTATGTATCCATCCCATCTAAAACTCTTCAAACCTCCACTTGTTCAGTCTGAAATGCA  
GCTCCCTGTCCAAGTGCTTGGAGAACTCACAGCAGCAGCCTTAATCAAAGGTTTTACCAGCCCTTGGACACTA  
TGGGAGGAGGGCAAGAGTACACCAATTTGTTAAAAGCAAGAAACACAGTGTCTCTTCACTAGTCATTTAGAACA  
TGGTTATCATCCAAGACTACTCTACCCTGCAACATTGAACCTCCCAAGAGCAAATCCACATTCTCTTGAGTTCTG  
CAGCTTCTGTGTAAATAGGGCAGCTGTCTGTATGCCGTAGAATCACATGATCTGAGGACCATTTCATGGAAGCTG  
CTAAATAGCCTAGTCTGGGGAGTCTTCCATAAAGTTTTGTCATGGAGCAAACAAACAGGATTAACTAGGTTTGGT  
TCCTTCAGCCCTCTAAAGCATAGGGCTTAGCCTGCAGGCTTCTTGGGCTTTCTCTGTGTGTGTAGTTTGTAA  
ACACTATAGCATCTGTTAAGATCCAGTGTCCATGGAAACATTCCACATGCCGTGACTCTGGACTATATCAGTTT  
TTGGAAAGCAGGGTTCTCTGCTGCTAACAAGCCCACGTGGACCAGTCTGAATGTCTTTCTTTACACCTATGT  
TTTTAAGTAGTCAAACCTCAAGAAACAATCTAAACAAGTTTCTGTTGCATATGTGTTTGTGAACCTGTATTGTGA

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**FIGURE 1216B**

TTTAGTAGGCTTCTATATTGCATTAACTTGTTTTGTAACTCCTGATTCTTCCTTTTCGGATACTATTGATGAA  
TAAAGAAATTAAAGTGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1217**

MWKRWLALALVAVAWVRAEEELRSKSKICANVFCGAGRECAVTEKGEPTCLCIEQCKPHKRPVCGSNGKTYLN  
HCELHRDACLITGSKIQVDYDGHCKEKKSVSPSASPVVQYQSNRDELRRRIIQWLEAEIIPDGWFSKGSNYSEILD  
KYFKNFDNGDSRLDSSEFLKFVEQNETAINITTYPDQENNKLLRGLCVDALIELSDENADWKLSEFLKCLNPS  
FNPPEKKCALEDETYADGAETEVDNRCVCACGNWVCTAMTCDGKNQKGAQTQTEEMTRYVQELQKHQETAECT  
KRVSTKEI

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**FIGURE 1218**

CTCCCAAGATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAAT  
ACAACATATCTCCGAAACCCGGCGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTACC  
TGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATCGAAAATCCTGCCTTGCTTCGTTGGGCCTATGCAAGAA  
CAATAAATGTCTATCCTAATTCAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTGGATTGGGCCCC  
TCATCTTCATTTATTATATTATCAAACTGAGAGGGATAGGAAAGAAAACTTATCCAGGAAGGAAAATTGGATC  
GAACATTCACCTCTCATATTAAGTCTGGCAATGATGACTATATGTATTCCTGCCTAAATAAATCATCTATTAAT  
CATTAAAAAAAAA

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**FIGURE 1219**

MSFPKYKPSSLRTLPELDPAEYNISPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAYARTIN  
VYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERDRKEKLIQEGKLDRTFHLST



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**FIGURE 1220**

GATGACACACAATAATTTTTGGTTGAAGAAGATAGAAATCAGTGTTCAGAAGCAGAAAAACGAACTGGAAGAAA  
TGCCATGAACATGCAAGAAACATATACTGCTTACCTCATTGAAACAAGGTCAGTTGAACATACCGATGGTCAGAG  
TGTCTAACAGACTCACTATGGCGGCGATATAGTGAATTTGAGTTGTTGAGAAGCTACCTTTTAGTTTACTATCC  
ACATATTGTTGTGCCACCTCTGCCAGAAAAACGGGCAGAAATTTGTTTGGCATAAACTCTCTGCTGACAACATGGA  
TCCAGATTTTGTGGAGAGGCGACGGATTGGTTTAGAAAACCTTCTCTTGAGGATTGCTTCACATCCCATCCTTTG  
TAGAGACAAAATCTTCTATCTGTTTTTAACACAGGAAGGTAACCTGGAAGGAGACTGTGAATGAACTGGGTTTCA  
GCTGAAGGCAGACTCCAGGTTAAAAGCGCTTAATGCAACATTCAGAGTGAAAAACCCAGACAAGAGATTTACTGA  
CCTTAAGCACTATAGTGATGAAGTGCAGTCTGTCATCTCACATCTTCTTCGAGTCAGAGCTAGAGTAGCAGATCG  
ACTCTATGGTGTATATAAAGTACATGGGAATTATGGTCGAGTTTTTCAGTGAATGGAGTGCCATAGAAAAAGAAAT  
GGGTGATGGACTGCAGAGTGCTGGTCATCATATGGATGTGTATGCATCTTCTATTGATGATATTTTGGAGATGA  
AGAACATTATGCAGATCAGTTAAAAGAGTATCTTTTTATGCAGAAGCATTGCGGGCTGTGTGCAGGAACATGA  
ACTTATGCAGTATGACTTGGAGATGGCTGCTCAGGACTTAGCATCCAAGAAGCAGCAGTGTGAGGAACGGTAAC  
TGGGACTGTGAGAACATTCTCTTTGAAGGGAATGACTACCAAGCTCTTTGGTCAAGAACTCCAGAGCAGAGAGA  
AGCCAGAATAAAGGTGCTAGAAGAACAATAAATGAAGGAGAACAACAGCTAAAGTCTAAAAATCTGGAAGGCAG  
AGAATTTGTGAAAAACGCATGGGCTGATATTGAACGCTTCAAAGAACAAAAGAACCGAGACTTAAAGGAGGCCCT  
CATAAGCTATGCAGTCATGCAGATCAGTATGTGCAAAAAGAGTCTCACCCTGTCACCCAGGCTGGAGTGCAATGG  
CATGATCTCAGCTCACTACAACCTCCGCCTCCCGTGTTCAGCAATTTACCTCATCCAGCCAGTAGATGGGAT  
TACAGGGAATTCAAGTTTGGACCAATGCTAAGGAATGCTTTAGCAAGATGTAATCCTGTGAATTGAATTTCTCTT  
CAATCAAAGTGCCCCAAAACAGAAGCACAAGTAAATAAAAGAAATTTAAGTCACTACCTAGTATACATAAACATA  
TACAATAAGTTAAATAAATTACGCTTTCTTTAACTTAATTTGTGGTCTGTGTAATGTAGCACAAAAAATATATTTT  
AATGAAGATTAAATAATTATAATTTGAGGTTTTGGGGACTGGTGTGATTCCAAAAAGTTAATTTAATAATATATA  
CCAACAGATTGTTTGTACGCTTCTGAACCAATGACTGAATGTCAAGATGTTGTTAATTTCTAGATGTTTGTGTT  
CAAGACCAGCTGTTTCAGATCTATTAATGTAGGGAATTTTCCCTAAGATTGAATTCCTATATTTACTTGGTAAG  
ATCCACTAATCTGTTATAGGGAGTTGTTTTCTCTTGCCCTTAGATTGAGCTATTTGGTTTGACAAAGCTCAGCAG  
AACTTGATGTGAAAAATCTACGATTTTCTTCTACATTCATTGATGCCCTTGTAATGTTTGATACACTAGAAA  
ATGCCTTCAATTTGTGTTTTACCAGAATTTTGATACTGGTCAGAAATTTTATACTGCCAACAAAGAAGACTCAAC  
TTCTCAGATCTATAATGGGATACATTGTCATCCTCTAGCAACTCCTATATAGAAAGTTTTAACTGAATATGTTAC  
ATATAAGAATTAAATTTCTTCTCAAATAATTCTTAACCTCAGTAATGAGCCTAAATTTACTCTGCTTGGCTCTCTA  
CACATGGCATTTCAGGGTATAAGATGTAGCATTTCAATGTGTAAGATATATGTACTAAACATATGTGTTGCTATC  
TTCATCATTAACATCCTTCTTTTCTATTGCTTGGCTGTAATTTTGTAAAGATAAATTATATTGTTTTTTGTAT  
GTGTTTGTAGTATATGTTTCAAGGCAAGCATCTTCATTTGCTAGCTTTGCAGAATCTTAAATGTGTACTC  
GTTATTTCTAATGATGTAAAAAAAATCCCTAGTCTGTTTAGCATTTGACTTTTTTATATGTTTTAAATGTTGC  
TGGATTTTTGTGCTGTTTGCCAACTTATACAATAAATAAATGAAATATTGTGCTG

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**FIGURE 1221A**

GCAATTTTAGAATGTGCTGGACAAAATGTAGAAAGGGAATGTTCTCAGCAAGCTCAGCAGCGCAAAAATGATTAT  
ATAATCACCGGAGGTGGATTTTTGAGGTGCAAGAATATCATTCATGTAATTGGTGGAATGATGTCAAGAGTTCA  
GTTTCTCTGTTTTGCAGGAGTGTGAAAAAAAATTACTCATCCATTTGCCTCCAGCCATTGGGACAGGAAAT  
GCCAAACAACCCAGATAAGGTTGCTGAAGCCATAATTGATGCCATTGAAGACTTTGTCCAGAAAGGATCAGCC  
CAGTCTGTGAAAAAGTTAAAGTTGTTATCTTTCTGCCTCAAGTACTGGATGTGTTTTATGCCAACATGAAGAAA  
AGAGAAGGGACTCAGCTTTCTTCCCAACAGTCTGTGATGTCTAAACTTGCATCATTTTTGGGCTTTTCAAAGCAA  
TCTCCCCAAAAAAGAATCATTTGGTTTTGGAAAAGAAAACAGAATCAGCAACTTTTCGGGTGTGTGGTGAAAAT  
GTCACGTGTGTGGAATATGCTATCTCCTGGCTACAAGACCTGATTGAAAAAGAACAGTGTCTTACACCAGTGAA  
GATGAGTGCATCAAAGACTTTGATGAAAAGGAGTATCAGGAGTTGAATGAGCTGCAGAAGAAGTTAAATATTAAC  
ATTTCCCTGGACCATAAGAGACCTTTGATTAAGGTTTTGGGAATTAGCAGAGATGTGATGCAGGCTAGAGATGAA  
ATGAGGCGATGATCAAGAGAGGTTTCGATTGGGCAAAGAACAGGAATCCCGGGCAGATTGTATCAGTGAGTTTATA  
GAATGGCAGTATAATCGACAATAACACTTCTCATGTGTTTTAACAAAATGACCAATCTGAAATTAGAGGATGCAA  
GGAGAGAAAAGAAAAAACAGTTGATGTCAAATTAATCATCGGCACTACACAGTGAACCTTGAACACATACACTG  
CCACAGACACAAAGGGCCACAGTTTATCTGTTACAGCGCTCACGAAATCCAAAGTTGACATCCCTGCACACTGGA  
GTGATATGAAGCAGCAGAATTTCTGTGTGGTGGAGCTGCTGCCTAGTGATCCTGAGTACAACACGGTGGCAAGCA  
AGTTTAATCAGACCTGCTCACACTTCAGAATAGAGAAGATTGAGAGGATCCAGAATCCAGATCTCTGGAATAGCT  
ACCAGGCAAAGAAAAAACTATGGATGCCAAGAATGGCCAGACAATGAATGAGAAGCAACTCTTCCATGGGACAG  
ATGCCGGCTCCGTGCCACACGTCAATCGAAATGGCTTTAACCGCAGCTATGCCGGAAGAATGCTGTGGCATATG  
GAAAGGGAACCTATTTTGTGTCAATGCCAATTATTCTGCCAATGATACGTACTCCAGACCAGATGCAAAATGGGA  
GAAAGCATGTGTATTATGTGCGAGTACTTACTGGAATCTATACACATGGAAATCATTCAATTAATTGTGCTCCTT  
CAAAGAACCCTCAAATCCTACTGACCTGTATGACACTGTACAGATAATGTGCACCATCCAAGTTTATTGTGG  
CATTTTATGACTACCAAGCATAACCAGAGTACCTTATTACGTTTAGAAAAATAACACTTTGGTATCCTTCCACAA  
AATTATTCTCCATTTGTACATATCTAGTTGTAAACAAGTTTTAGCTTTTTTTTTTAATTCCTCTTAACAGATTT  
TTCTAATATCCAAGGATCATTCTTTGTGCTGAAGTCAGTCTTCTTCAGCTTCCCTTCATAATGGAATGAAC  
TTATTATCTTGAGAGCAAATAACTTGAAAAATTAAATGAGATAATGCAGTTGCAACTGTGTGTCCACAAGTATG  
GACATCAAATCTGTGGGAAAAGAAGAGGTTTGTATTTTCAGGAAGGAGAGAATAACAGTCTTATAGACAGAGGGC  
ACAGCTAAGCACAGCTGCCACTGCAGGAGACAGGCCCATGTGAGGATGCCATAGTGTGTGGGAGCACAGTAT  
TACCCAGTGGGTAGGGCTTCTGTCTTCCCTGGGAGCAGGGATGGTATCTTAGTCAATTTTTTCCCTTGAGATGA  
GGTCTGTGCTGTGTACACGGATACTCCATAAATGTTTGACAAACCAACGAAGAATGAAAAAAGCCCTAGTCA  
GACTCCCATCCAAGTAGGAATCTCTTTAACATTCTTGACTCACTATCACTTTACCTCAAATTGAACAGATT  
CCATGACGGAACCTCATTCTTACAACTAGCCAGTGACATGTGGGACAGCTCTGGCCAGGGCTCTGGGACTGCA  
GTGTACTTGCCTCTGCACGGTCCAGGAGCTGTGATGTGGCTGTGGTCTAGGGGAATCCTGCCTGCCCATGGAG  
TTGCGCAGCACAAACCCTGGCTCCAATTGCCAGAAGGCTCTTTTAAATGCTGAACCAAAATGTGCTTTTTTTTT  
TTTTTTTGTAGATGGAGTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGCGGATCTCAGCTCACTGCAGCCAC  
TGCTTCCAGGTTCAAGTGATTCTCCTGCCTCAGCTCCCGAGTAGCTGGGATTACAGGCATGCGCTAACACACC  
CAGCTAATTTTGTATTTTAGTAGAGACGAGGTTTCTCCATGTTTCGACAGGCTGGTCTCGAACTCCACCTCAGC  
CTCCCAAATGCTGGGATTACAGGTGTGAGCCACCGTGACCAGCCAATGTGCCTTCTTATAGTGTCTACTCATTG  
GTCTTTGTTCTGCCCAGTGATAACAATGGGATAACGCCCTGTACACATCTTCATTGTGAAACCCTTCCCTGTGC  
TGAGATTAAATGAACCTAAGATTATTAATAGTATATTTCCCTTGACAGCCTAGCCTTTGATGATTTTAAAGCC  
TTATGTATAAATAAACCAAGGAAGTAAGCAGTCATATTGCTAATTTGCTAACTCCTATCTATTGAATGGTGAAG  
TTTTAAAAATTTCCCAAGGTAAGTTAAGATTCAAACACCATCTATTGAGCACCTACATTGTGTGCCAGGTAGTA  
AAATAGGTGCTTTCATACACATTGTCTCAATCCTGTGAGGTGAGAATTATCTCTGCATTGAACTTGAGGAAA  
CATGCTCAGAGTGCAAGAAGCTTCTTGCCTGAGATCACCTAGAAAGGAACCTCAGAGCCGGCAACTGAATCTT  
GGTCCCTGTGATGTCAAGCCATTGCTCTCCACTGCAGAACATGGCCTCTAGATTAATGCCACCGATTGAGGAA  
CACCTCCGACAGTCTTGAAATACCCCATGTTGCCTTGTGTTTTTCTTCTGGCTTCTTCTATTACAGTCTC  
TTCATTGGAAGCTCTGTAGGCAAGGCCAGAGCTGATACTGACACGGAGCCAATGCAGATAGCACATCAGATGCT  
AGGGGTGCTGGGAGGATTAAGGGACTTAATCTGCTAGGAACACCTGTACTTGAAGTGGAGGAGCTAGGGGGCC  
ACAGTTGCTGCTTCAATTAACATAGAGGTTTTGGATTTTTTCTCTGTGTTTTTTTTTAAGTGGATTGGCAGA

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**FIGURE 1221B**

CTCCTTGTTGCTTAAGAGTGGCTTTCTAGGCAGGCCACTGGCATCTGAATTCATCATTGACAATAAATGTAAGAA  
ATTGGAATAAAAAAGAGAGACCTGCTGTTATTGCTTTTGTTCCTCAGTGATTGATTAACTCAGGGCAAGGCTG  
AATATCAGAGTGTATCGCACTGAAGAATAATAATCCATTCAGTAATGTTATAGTTATCCTCAATCTAAATATGTC  
AACTGTCATTTTGCTACTTTTCAAATAAAATACTTGAAAACCTGTC

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**FIGURE 1222**

MKKREGTQLSSQQSVMSKSLASFLGFSKQSPQKKNLVLEKKTESATFRVCGENVTCVEYAIISWLQDLIEKEQCPY  
TSEDECIKDFDEKEYQELNELQKKLNINISLDHKRPLIKVLGISRDVMQARDEIEAMIKRVRLAKEQESRADCIS  
EFIEWQYNDNNTSHCFNKMTNLKLEDARREKKKTVDVKINHRHYTVNLNTYTATDTKGHSLSVQRLTKSKVDIPA  
HWSDMKQQNFCVVELLPSPDEYNTVASKFNQTCSHFRIEKIERIQNPDLWNSYQAKKKTMDAKNGQTMNEKQLFH  
GTDAGSVPHVNRNGFNRSYAGKNAVAYGKGTFFAVNANYSANDTYSRPDANGRKHVYYVRVLTGIYTHGNHSLIV  
PPSKNPQNPTDLYDTVTDNVHHPSLFVAFYDYQAYPEYLITFRK

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**FIGURE 1223**

GAATTCGGGGGGCGCCGGAGTGGAGAAAGGAGCCAGCGGTGGGCAGCGCTGCTGGGATGGCGCGGGCCGGGCCGG  
CGTGGCTGCTGCTGGCAATCTGGGTGGTCCTGCCATCATGGCTGTCTCTGCAAAGGTCTCCTCGCTCATTGAGA  
GAATCTCTGACCCCAAGGACTTGAAAAACTGCTCAGAACCCGGAATAATGTACTGGTGCTTTACTCCAAATCTG  
AGGTGGCAGCTGAAAATCATCTCAGGTTACTGTCCACAGTGGCCAGGCGGTGAAAGGACAAGGGACCATCTGCT  
GGGTGGACTGTGGTGATGCAGAGAGTAGAAAATTGTGCAAGAAGATGAAAGTTGACCTGAGCCCGAAGGACAAAA  
AGGTTGAATTATTCCATTACCAGGATGGTGCATTTCACTGAATATAACCGAGCTGTGACATTTAAGTCCATAG  
TGGCCTTTTGAAGGATCCAAAAGGGCCCCCACTGTGGGAGGAAGATCCTGGAGCCAAAGATGTTGTCCACCTTG  
ACAGTGAAAAGGACTTCAGACGGCTCCTGAAGAAGGAAGAGAAGCCGCTCCTGATCATGTTTTATGCCCCCTGGT  
GCAGCATGTGCAAGAGGATGATGCCGCATTTCCAGAAGGCTGCGACTCAGCTGCGAGGCCACGCCGTGCTGGCCG  
GGATGAATGTCTACTCCTCTGAATTTGAAAACATCAAGGAGGAGTACAGCGTGCGCGGCTTCCCCACCATCTGCT  
ATTTTGAGAAAGGACGGTTCTTGTTCAGTATGACAACATATGGGTCCACAGCTGAGGACATTGTGGAGTGGCTGA  
AGAATCCGCAGCCGCCACAGCCCCAGGTCCCTGAGACTCCCTGGGCAGATGAGGGCGGCTCCGTTTATCACCTGA  
CCGATGAAGACTTTGACCAGTTTGTGAAGGAACACTCCTCTGTCTCGTCATGTTCCACGCCCCATGGTGTGGCC  
ACTGTAAGAAAATGAAGCCGGAGTTTGAGAAGGCAGCAGAAGCCCTCCATGGAGAAGCGGATAGCTCTGGTGTCC  
TTGCAGCTGTGATGCCACTGTCAACAAGGCCCTGGCAGAAAGATTCCACATCTCAGAGTTTCTTACGTTGAAGT  
ATTTTAAGAATGGAGAGAAATACGCAGTGCCTGTGCTCAGGACAAAGAAGAAGTTTCTCGAGTGGATGCAAAACC  
CTGAGGCCCCCCCCGCCCCAGAGCCACGTGGGAAGAGCAGCAGACAAGCGTGTTCACCTGGTGGGGGACAACCT  
TCCGGGAGACCCTGAAGAAGAAGAAACACACCTTGGTCATGTTCTACGCCCCCTGGTGCCCACTGTGAAGAAGG  
TCATTCCGCACTTTACTGCTACTGCTGATGCCTTCAAAGATGACCGAAAGATTGCCTGTGCCGCTGTTGACTGTG  
TCAAAGACAAGAACCAAGACCTGTGCCAGCAGGAGGCGGTCAAGGGCTACCCCACTTTCCACTACTACCACTATG  
GGAAGTTCGCAGAAAAGTATGACAGCGACCGCACAGAATTGGGATTTACCAATTATATTCGAGCCCTCCGGGAGG  
GAGACCATGAAAGACTAGGGAAAAAGAAGGAAGAGTTATTAATTCCTGCCTCAGAAAAAGCTTTTCCATTACCTG  
TGAATGATACCTGTTTTGTGTTTCTGAATTTCCCCGAATTC

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**FIGURE 1224**

MARAGPAWLLLAIWVVLPSWLSSAKVSSLIERISDPKDLKKLLRTRNNVLVLYSKSEVAAENHLRLLSTVAQAVK  
GQGTICWVDCGDAESRKLCKMKVDLSPKDKKVELFHYQDGAFHTEYNRAVTFKSIVAFKDKPGPPLWEEDPGA  
KDVVHLDSEKDFRLLKKEEKPLLIMFYAPWCSMCKRMPHFQKAATQLRGHAVLAGMNVYSSEFENIKEEYSVR  
GFPTICYFEKGRFLFQYDNYGSTAEDIVEWLKNPQPQPQVPETPWADEGGSVYHLTDEDFDQFVKEHSSVLVMF  
HAPWCGHCKMKPEFEKAAEALHGEADSSGVLAAVDATVNKALAERFHISEFPTLKYFKNGEKYAVPVLRTKKKF  
LEWMQNPEAPPPPEPTWEEQQTSLHLVGDNFRETLLKKKKHTLVMFYAPWCPHCKKVIPHFTATADAFKDDRKIA  
CAAVDCVKDKNQDLCQQEAVKGYPTFHYYHYGKFAEKYDSRTELGFNTYIRALREGDHERLGKKKEEL

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**FIGURE 1225**

CTCAGACTGCTGTGCTAGCAATCAGTGAGACTCCGTGGGCGTAGGACCCTCTGAGCCAGGTGCGGGATATAATCT  
TGTGGTGCGCCGTTTTTTAAGCCGGTCCGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTCCCAGGGCTGT  
GACCATCTATGACAAGCCGGCATCTTTCTTTAAAGAGACACCTCTGGACCTGCTGCACCGGCTCTTCATGAAGCT  
GGGTGGCACTCACTCTCTGTTCAGGGCCTGCTCAGAACCTGAGGACGCAGCCATGGAGCGGTGCGGCCTTCATGGA  
GCTGGATGCTGGGAGCAGGCTGGTGATGCATCTCCGCGAGTGCCAGCCCTGCTGGTCAGCAGCACGGGCTGGAC  
AGAGTTTGAACAACCTTACTCTGATGGACACAACCTTCCTTCTCTGTCTGTGTGATAACAGGGTCGGTGGACCT  
GGGTGTCTGTCTGCACATGTCCTCCAGTGGCCTGGACCTGCCCCATGAAGGTGGTGGACATGTTCCGGGTGCTGTTT  
GCCTGTGTGTGCCGTGAACCTCAAGTGTTTACATGAGCTGGTGAAACATGAAGAAAATGGCCTGGTCTTTGAGGA  
CTCAGAGGAACCTGGCAGCTCTGCAGATGCTTTTCTCAAACCTTCTCTGATCCTGCAGGCAAGCTAAACCAGTTTTG  
GAAGAACCCTGCGGGAGTCGCAGCAGCTCCGATGGGATGAGAGCTGGGTGCAGACTGTGCTCCCTTTGGTTATGGA  
CATACAACTCCTGGGCCAGAGGCTAAAACCCCGGGACCCCTGCTGTCTTCCCGCAGCTTCTTCTCGGAGTCTCA  
GGGCAAACCCCTTTGAGCAGCGCCTCCAGTGGCCAGAAGCTGAAATGACGGCAGTGGTGCCGCTGGTGAATGA  
ATTGGTTCTGTGACCCGG

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**FIGURE 1226**

MKLGGTHSPFRACSEPEDAAMERSAFMELDAGSRLVMHLREWPALLVSSTGWTEFEQLTLDGHNLP  
SLVCVITGS  
VDLGVCLHMSSSGLDLPKVVDMFGCCLPVCVAVNFKCLHELKHEENGLVFEDSEELAALQMLFSNFPDPAGKLN  
QFWKNLRESQQLRWDESQVQTVLPLVMDIQLLGQRLKPRDPCCPSRSFFSESQGKPF



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**FIGURE 1227**

GCAGACACGTGATGCGGGGGAGGGGGGGGGGGCGTGGCAGGAGCAAGCGTCTGCCGCGGTGGCCGGGTGCCGGTA  
AGGGTTTCCAGCGCCCCCGGCTAGGTTTTGGAGGCGCGGAATGCGTTCGTTGCTCAGTGTGCGGACTTCCCCCT  
ATTCCCATCGGCCGAGGCTGTCACTTTACGCTCATAACCGTTTTTCTTTACTGCACTCGTGTGCGGAGGAAAGGG  
ACTTGCGTGGCAGCCCCAGACCTCCCCGTCTCCGCTTCCACGTTTGGTACATCCTGCCTGAGGCAGGAAGCCGCA  
GCTGAGGGACGGCCTGTCTGACGGTGGGATGGTGGTGGCTGCGAGGCTCATTCTAGCAAGGAACAAGGCTTT  
CCCGCTTTGATTTTATAAATATTATGTTTACAAAGCTGTAATATATAGAAATTGATAAGACGTGTCCCTGTCCCT  
GGAAACGCAGGCACCGCGTGTGAAAGACATTCATCTGGGCTGTTTGACAGACTCCCCAGTTGGTGCCATGCT  
CTGTGCTTAGGGAAGTGTGAGACCCCTGGAGGGGTGGGTACCGGGACCGCACTCAGCCTGGGGTTTGGAGGCGGC  
CTCCTATAGGAAGCGACCTGGGACCTAAGATTTTAGACTGACTGTGGGTTCACTGGAATAAAAAGGAAGAAACA  
AAGAGCATTGCAGGCATCGGGACTGTCACATTTGACAAGATCAAAGCTGCAGGAAAATGGACAGTGAGGTTTCA  
GAGATGGAAGGATCTTGATTGATTGATGATGCTTGGCGAGAAGACAAGCTGCCTTATGAGGATGTCGCAATAC  
CACTGAATGAGCTTCTGAACCTGAACAAGACAATGGTGGCACCACAGAATCTGTCAAAGAACAAGAAATGAAGT  
GGACAGACTTAGCCTTACAGTACCTCCATGAGAATGTTCCCCCATTGGAACTGACGCTTGGCTCCTTTCTTGT  
GGATGGATTTTCTCAAAGTACACAGATAAAGCATGGTTTGTTCAGTCTCCAATTCAAACCTTTGAGTAATAAA  
TCAGCACTCAAAAATGTACACCCATTTAGTTTGTGGTAGCAAAGTGCAATGCGAAATTGAATGAGAACTGAGAT  
TTCTCAGTAATGGTGAATATTTGCTCTTTAAACCTAAACTCTTCATTGAGTAGCTTATATTGAACATGATTG  
GTTAAACATTTGCCTCTACCTCTGATTTTGCTTTGCTGTCAAAGTTTAAACACCTTCCAACCTACTTATGTGTGTC  
TGTAACACAGGTGATTGAACGTATGAGAGGGAAAGGCAAGAAAAGGAAGCCAGACACTAGGAGAATTATTAAC  
TTCTCATACTTCCCCACATTGAGAAGCATTGCGAGTGTATTTAGCCTGTAGATGTTGTGATATGCAAAATATCCCA  
TTCCCTGGTTACTGGCATTCCCTAAGATTCTTCATGGTATTTTCAAACCTTTGGATAAATTTACAGATTAGAAAGAT  
ATCTGACAGTTAATCTCTGTTCTCCTTACAAATTCCTTTTGTGCTGCTGGAAAGGATCTTTGGCTAGGTGGATGA  
CTAGTTTTATTCAAAGCCTTTTCTCAAAGCCCTTTTCACTTACAACCCCCACTATGGAATCAGTATTTAGTTAT  
ACATTTGTATAAGAACCTGTATTTTGAAAAACACATTCATGTATTTATTCCTGGAATTATTTGCCTGTTAAAC  
AGTGTCTTTTATGTTCTCTCCCCAGATTGTAACTCTGTAAAGAGCTGCTTGTATCTGTATCCCTTGTGAAACT  
CTGAAAACACTGAATAACTAAATCTCTTCTCATCCTTT

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**FIGURE 1228**

MRGRGGGRGRSKRLPRWPGAGKGFQRPRFRFWRRGNFVAQCRTSPYSHRPRLSLYAHNRFSLHSCREERDLRG  
TPRPPRLRFHVWYILPEAGSRS

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**FIGURE 1229**

AGTGGCGGAGAGGATCGTGGTACTGCTATGCGCGGAATCATCGGAATCCTTCACCATGGCATCCAGCCCGGCCAG  
CGTGGCGGAGGCAATGATCCTCTCACCTCCAGCCCTGGCCGAAGCTCCCGGCGTACTGATGCCCTCACCTCCAGC  
CCTGGCCGTGACCTTCCACCATTGAGGATGAGTCCGAGGGGCTCCTAGGCACAGAGGGGCCCCCTGGAGGAAGAA  
GAGGATGGAGAGGAGCTCATTGGAGATGGCATGGAAAGGACTACCGCGCCATCCCAGAGCTGGACGCCATGAG  
GCCGAGGGACTGGCTCTGGATGATGAGGACGTAGAGGAGCTGACGGCCAGTCAGAGGGAGGCAGCAGAGCGGGCC  
ATGCGGCAGCGTGACCGGGAGGCTGGCCGGGGCTGGGCCGCGATGCGCCGTGGGCTCCTGTATGACAGCGATGAG  
GAGGACGAGGAGCGCCCTGCCCGCAAGCGCCGCCAGGTGGAGCGGGCCACGGAGGACGGCGAGGAGGACGAGGAG  
ATGATTGAGAGCATCGAGAACCTGGAGGATCTCAAAGGCCACTCTGTGCGGAGTGGGTGAGCATGGCGGGCCCC  
CGGCTGGAGATCCACCACCGCTTCAAGAACTTCTGCGCACTCACGTGACAGCCACGGCCACAACGTCTTCAAG  
GAGCGCATCAGCGACATGTGCAAAGAGAACCGTGAGAGCCTGGTGGTGAACATGAGGACTTGGCAGCCAGGGAG  
CACGTGCTGGCCTACTTCTGCTGAGGACCGGGCGGAGCTGCTGCAGATCTTTGATGAGGCTGCCCTGGAGGTG  
GTACTGGCCATGTACCCCAAGTACGACCGCATCACCACCATCCATGTCCGCATCTCCACCTGCCTCTGGTG  
GAGGAGCTGGCTCGCTGAGGACGCTGCATCTGAACAGCTGATCCGCACCAAGTGGGGTGGTGACCACTGCACT  
GGGCTCCTGCCCCAGCTCAGCATGGTCAAGTACAAGTGAACAAGTGCAATTCGTCTGGGTCTTTCTGCCAG  
TCCCAAGAACAGGAGGTGAACACAGGCTCCTGTCTGAGTGCCAGTGGGCCGGCCCCCTTTGAGGTCAACATGGAG  
GAGACCATCTATCAGAACTACCAGCGTATCCGAATCCAGGAGAGTCCAGGCAAAGTGGCGGCTGGCCGGCTGCC  
CGCTCCAAGGACGCCATTCTCTCGCAGATCTGGTGGACAGCTGCAAGCCAGGAGACGAGATAGAGCTGACTGGC  
ATCTATCACAACACTATGATGGCTCCCTCAACACTGCCAATGGCTTCCCTGTCTTTGCCACTGTCATCCTAGCC  
AACCACGTGGCCAAGAAGGACAACAAGGTTGCTGTAGGGGAAGTACCGATGAAGATGTGAAGATGATCACTAGC  
CTCTCCAAGGATCAGCAGATCGGAGAGAAGATCTTTGCCAGCATTGCTCCTTCCATCTATGGTCATGAAGACATC  
AAGAGAGGCTGGCTCTGGCCCTGTTTCGGAGGGGAGCCCAAAACCCAGGTGGCAAGCACAAGGTACGTGGTGAT  
ATCAACGTGCTCTTGTGCGGAGACCCTGGCACAGCGAAGTCCGAGTTTCTCAAGTATATTGAGAAAGTGCCAGC  
CGAGCCATCTTACCCTGGCCAGGGGGCGTGGCTGTGGGCCCTACGGCGTATGTCCAGCGGCACCCTGTCCAG  
AGGGAGTGGACCTTGGAGGCTGGGGCCCTGGTTCTGGCTGACCGAGGAGTGTGTCTCATTGATGAATTGACAAG  
ATGAATGACCAGGACAGAACCAGCATCCATGAGGCCATGGAGCAACAGAGCATCTCCATCTCGAAGGCTGGCATC  
GTCACCTCCCTGCAGGCTCGCTGCACGGTCATTGCTGCCGCCAACCCCATAGGAGGGCGCTACGACCCCTCGCTG  
ACTTTCTCTGAGAACGTGGACCTCAGAGGCCATCATCTCAGCTTTGACATCCTGTGTGTGGTGAGGGACACC  
GTGGACCCAGTCCAGGACGAGATGCTGGCCCGCTTCTGGTGGGCGAGCCACGTGAGACACCACCCAGCAACAAG  
GAGGAGGAGGGGCTGGCCAATGGCAGCGCTGCTGAGCCCGCCATGCCAACACGTATGGCGTGGAGCCCTGCC  
CAGGAGGTCTGAAGAAGTACATCATCTACGCCAAGGAGAGGGTCCACCCGAAGCTCAACCAGATGGACAGGAC  
AAGGTGGCCAAGATGTACAGTGACCTGAGGAAAGATCTATGGCGACAGGCAGCATCCCCATTACGGTGGCGCAC  
ATCGAGTCCATGATCCGCATGGCGGAGGCCACGCGCGCATCCATCTGCGGGACTATGTGATCGAAGACGACGTC  
AACATGGCCATCCGCGTGATGCTGGAGAGCTTCATAGACACACAGAAGTTCAGCGTCATGCGCAGCATGCGCAAG  
ACTTTTGCCCGCTACCTTTTATTCCGGCGTGACAACAATGAGCTGTTGCTCTTCACTGAAGCAGTTAGTGGA  
GAGCAGGTGACATATCAGCGCAACCGCTTTGGGGCCAGCAGGACACTATTGAGGTCCCTGAGAAGGACTTGGTG  
GATAAGGCTCGTCAGATCAACATCCACAACCTCTCTGCATTTTATGACAGTGAGCTCTTCAGGATGAACAAGTTC  
AGCCACGACCTGAAAAGGAAAATGATCCTGCAGCAGTTCTGAGGCCCTATGCCATCCATAAGGATTCTTGGGAT  
TCTGGTTTGGGGTGGTCAGTGCCCTCTGTGCTTTATGGACACAAAACCAGAGCACTTGATGAACCTGGGGTACTA  
GGGTGAGGGCTTATAGCAGGATGTCTGGCTGCACCTGGCATGACTGTTTGTCTTCTCCAAGCCTGCTTTGTGCTTC  
TCACCTTTGGGTGGGATGCTTGGCAGTGTGCTTACTTGGTTGCTGAACATCTTGCCACCTCCGAGTGCTTTGT  
CTCCACTCAGTACCTTGGATCAGAGCTGCTGAGTTCAGGATGCCTGCGTGTGGTTTAGGTGTTAGCCTTCTTACA  
TGGATGTGAGGAGCTGCTGCCCTCTTGGCGTGAGTTGCGTATTCAGGCTGCTTTTGTGCTTTTGGCCAGAGA  
GCTGGTTGAAGATGTTTGAATCGTTTTCAGTCTCCTGCAGGTTTCTGTGCCCTGTGGTGGAGAGGGCACGAC  
AGTGCCAGCGCAGCGTTCTGGGCTCCTCAGTCGAGGGGTGGGATGTGAGTCATGCGGATTATCCACTCGCCACA  
GTTATCAGCTGCCATTGCTCCCTGTCTGTTTCCCACTCTCTTATTTGTGCATTGCGTTTGGTTTCTGTAGTTTT  
AATTTTAAATAAGTTGAATAAAATAT

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**FIGURE 1230**

MAESSESFTMASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTEGPLLEEEEDGEELIGD  
GMRDYRAIPELDAYEAEGLALDDEDVEELTASQREAAERAMRQRDREAGRGLGRMRGGLLYDSDEEDEERPARK  
RRQVERATEDGEEDEEMIESIENLEDLKGHSVREWVSMAGPRLEIHHRFKNFLRTHVDSHGHNFKERISDMCKE  
NRESLVVNYEDLAAREHVLAYFLPEAPAEELLQIFDEAALEVVLAMYPKYDRITNHIHVRI SHLPLVEELRSLRQL  
HLNQLIRTSGVVTSTCTGVLPQLSMVKYNCNKNCFVLGPFQSQSQEQEVKPGSCPECQSAGPFEVNMEETIYQNYQR  
IRIQESPGKVAAGRLPRSKDAILLADLVDSCKPGDEIELTGIYHNNYDGLNTANGFPVFATVILANHVAKKDNK  
VAVGELTDEDVKMITSLSKDQQIGEKIFASIAPSIYGHEDIKRGLALALFGGEPKNPGGKHKVRGDINVLLCGDP  
GTAKSQFLKYIEKVSSRAIFTTGQASAVGLTAYVQRHPVSREWLEAGALVLADRGVCLIDEFDKMNDQDRTSI  
HEAMEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDILCVVRDTPVQDEML  
ARFVVGSHVRHHP SNKEEGLANGSAAEPAMPNTYGVPEPLPQEV LKKYIIYAKERVHPKLNQMDQDKVAKMYSDL  
RKESMATGSIPITVRHIESMIRMAEAHARIHLRDYVIEDDVNMAIRVMLESFIDTQKFSVMRSMRKTFA RYLSFR  
RDNNELLLF ILKQLVAEQVTYQRNRFGAQQDTIEVPEKDLVDKARQINIHNL SAFYDSELF RMNKF SHDLKRKMI  
LQQF

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**FIGURE 1231**

ACCATGGGCCGGCTGCTGCGGGCCGCCGGCTGCCGCCGCTGCTTTGCGCGCTGCTGCTTCTGCTGGTTGGGGGA  
GCGTTCCCTGGGTGCCTGTGTGGCTGGGTCTGATGAGCCTGGCCCAGAGGGCCTCACCTCCACCTCCCTGCTAGAC  
CTCCTGCTGCCCCTGGCTTGGAGCCACTGGACTCAGAGGAGCCTAGTGAGACCATGGGCCTGGGAGCTGGGCTG  
GGAGCCCCTGGCTCAGGCTTCCCCAGCGAAGAGAATGAAGAGTCTCGGATTCTGCAGCCACCACAGTACTTCTGG  
GAAGAGGAGGAAGAGCTGAATGACTCAAGTCTGGACCTGGGACCCACTGCAGATTATGTTTTTCTGACTTAACT  
GAGAAGGCAGGTTCCATTGAAGACACCAGCCAGGCTCAAGAGCTGCCAAACCTCCCCCTCTCCCTTGCCCAAGATG  
AATCTGGTTGAGCCTCCCTGGCATATGCCTCCCAGAGAGGAGGAAGAAGAGGAAGAGGAAGAGGAGGAGAGGGAG  
AAGGAAGAGGTAGAGAAACAAGAGGAGGAGGAAGAGGAGGAGCTGCTCCCTGTGAATGGATCCCAAGAAGAAGCC  
AAGCCTCAGGTCCGTGACTTTTCTCTCACCAGCAGCAGCCAGACCCAGGGGCCACCAAAAGCAGGCATGAAGAC  
TCCGGGGACCAGGCCTCATCAGGTGTGGAGGTGGAGAGCAGCATGGGGCCAGCTTGCTGCTGCCTTCAGTCACC  
CCAATACTAGTACTCCGGGGACCAGGACTCCACCAGCCAAGAGGCAGAGGCCACAGTGTGCCAGCTGCAGGG  
CTTGGGGTAGAGTTCGAGGCTCCTCAGGAAGCAAGCGAGGAAGCCACTGCAGGAGCAGCTGGTTTGTCTGGCCAG  
CACGAGGAGGTCCGGCCTTGCCCTTCAATCCCTCAAACCACAGCTCCCAGTGGGGCCGAGCACCCAGATGAAGAT  
CCCCTTGGCTCTAGAACCTCAGCCTCTTCCCCACTGGCCCCCTGGAGACATGGAACCTGACACCTTCTCTGCTACC  
TTGGGACAAGAAGATCTCAACCAGCAGCTCCTAGAAGGGCAGGCAGCTGAAGCTCAATCCAGGATACCCTGGGAT  
TCTACGCAGGTGATCTGCAAGGACTGGAGCAATCTGGCTGGGAAAACTACATCATTCTGAACATGACAGAGAAC  
ATAGACTGTGAGGTGTTCCGGCAGCACCGGGGGCCACAGCTCCTGGCCCTGGTGGAAGAGGTGCTGCCCCGCCAT  
GGCAGTGGCCACCATGGGGCTGGCACATCTCTCTGAGCAAGCCCAGCGAGAAGGAGCAGCACCTTCTCATGACA  
CTGGTGGGCGAGCAGGGGGTGGTGCCCACTCAAGATGTCTTTCCATGCTGGGTGACATCCGCAGGAGCCTGGAG  
GAGATTGGCATCCAGAACTATTCCACAACCAGCAGCTGCCAGGCGCGGGCCAGCCAGGTGCGCAGCGACTACGGC  
ACGCTCTTTCGTGGTGCTGGTGGTCATTGGGGCCATCTGCATCATCATCATTGCGCTTGGCCTGCTCTACAACTGC  
TGGCAGCGCCGGCTGCCAAGCTCAAGCACGTGTGCGACGGCGAGGAGCTGCGCTTCGTGGAGAACGGCTGCCAC  
GACAACCCACGCTGGACGTGGCCAGCGACAGCCAGTCGGAGATGCAGGAGAAGCACCCAGCCTGAACGGCGGC  
GGGGCCCTCAACGGCCCCGGGAGCTGGGGGGCGCTCATGGGGGGCAAGCGGGACCCCGAGGACTCGGACGTGTTT  
GAGGAGGACACGCACCTGTGAGCGCAGCCGAGGCGCAGGCCGAGTGGGCCGCCAGGACCAAGCGAGGTGGACCCC  
GAAACGGACGGCCCCGAGCCCGCACCAGCCCCGCGCTACCCGGGCCGCCCCCGCGCCTGGCCCTCGGCGCGGG  
CTCCTTCCCGCTTCCCCGACTTCACACGGCGGCTTCGGACCAACTCCCTCACTCCCGCCCGAGGGGCAGGCCTC  
AAAGCCCGCCTTGCCCCGCTTTCCCGCCCCTGAACCCCGCCCCCGGGCGGCGGGCGGCGCTTCTGCGCCCC  
GGGACTCAATTAAACCCGCCCGGAGACCAGCCGGGCCAGCG

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**FIGURE 1232**

ATTTTACCTGATGCTATGAGAGAATCATATTGAAGATGAAATGTCTAATATATAATGTATATTTTAAAGCAGAGA  
CTATTTTGGTGGATAGGTGGGAGGGAGCAAGGGGAGTTTGAGGGAATCAGAGCTTGATGCTACTGTACAGAACTG  
GACAGGTTGGGCCGGCAGTGGTGGGGCCAGAGGGCTCTGTGCTCTAGGAGCTAAGCCAGCAGCCCCGAGAGGGG  
ACTTGGCTGGGCCTTTCTATGGGCAAGGCCAGTGCTCTTCCTGCCCCACCAGGGACCATGGAGCAGTGGCACCC  
TATGGGGCTATGATCCCTAGGCCTGGGCCTGGGCCTGCCTATGGCCCCAGAGCTACCCTGGGAGTGTCACTGCTAG  
CAGCACAGCTACCTCTGGTGGCAGGAGAAGAGAGGGCCAGCACAGCAGCAGGCCAGGCCTTCCTGTCCAGGTCTG  
CATGGAGCACTCGGTGACCCAGAGCAGGGACTGGAGGCACCCCCAGCCCTGCCCCAGGCCACAGCAGGACAGGCC  
GGGACAGGCCTCACCCAAGGCCAAGGCTGGCATCAGCCAATCATTAGAGCTGAGGCCCTGGGCCTAGCCTGCCC  
TTCTCAGGTGCCAATAACACCCCAGCCCTGCCCTTGGCCTCACTTTTCCCAGCAATAAGTGGGGTTACACCCC  
GCCTCGGGAATACTTTCCCCTTCTAAATGGGACTTGCTGTTACCTCAGGAGGCTCCTTAGTGCAAATATGACCCCT  
GGTCAGGGCTTTGCCACCGTTGAAGCCCTGCAGAAGGTGCAATGTAGGGGTTCTGGGGCCACAGAGGAGAGGCCA  
CTTCCCACCAGGACCCCCAACATGAAGTCTAGGCCTCAGGGGCTCCCCCCTTCTTCCTCCAGCAGCGGGAAGT  
CCACTGCTCTCCAGGCCCTGTTCTGGAGGCTAACCTTGGTTTCTGGAGAGTGTGCCCCCTCCACCCTCCCTCCAG  
CAGCCCTGATCACACCATGAGAGCCAGGAACGGGTCACCCTGCTGAAGATCACTCTGTGCCCTGGGGGAGGAGCC  
AAGCCCTCACCCACAAGGGGCAGGTGGGGCTTGGTTGCTGACCCGGCCCAAGTCCCCACAGAGCACCTTCTGT  
AGCTCCAGCTTGCTCCCTGG

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**FIGURE 1233**

MAQSYPGSVSASSTATSGGRRREAQHSSRPGLPVQVCMEHSVTQSRDWRHPQPCPRPQQDRFGQASPKAKAGISQ  
SFRAEALGLACPSQVPIPPQPCWPHFFPAISGVHHPREYFPLLNGTCCYLRRLLSANMTLVRALPPLKPCRRRC  
NVGVLGPQRRGHFPPGPPT

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**FIGURE 1234**

CTGCAGACGAGGCAGGCGGAAGAGGCGGGACTTCGCGGGTGACGTCAICGGGGCGCCGGAGGCCCGGGGCGCCTG  
GGAATTTGAAGCAAACAGGCAGCGCGGACAATGGCGGTGCTCGTGACAGCTTTGGGGCCATTGGTGACGGGTCT  
GTACGACGTGCAGGCTTTCAAGTTTGGGGACTTCGTGCTGAAGAGCGGGCTTTCTCCCCCATCTACATCGATCT  
GCGGGGCATCGTGTCTCGACCGGTCTTCTGAGTCAGGTTCAGATATTTTATTCCAACTGCCCAAAATGCAGG  
CATCAGTTTTGACACCGTGTGTGGAGTGCCTTATACAGCTTTGCCATTGGCTACAGTTATCTGTTCAACCAATCA  
AATTCCAATGCTTATTAGAAGGAAAGAAACAAAGGATTATGGAATAAGCGTCTTGTAGAAGGAACATTAAATCC  
AGGAGAAACCTGTTTAATCATTGAAGATGTTGTACCAGTGGATCTAGTGTTTTGGAACTGTTGAGGTTCTTCA  
GAAGGAGGGCTTGAAGGTCACTGATGCCATAGTGTGTTGGACAGAGAGCAGGGAGGCAAGGACAAGTTGCAGGC  
GCACGGGATCCGCTCCACTCAGTGTGTACATTGTCCAAATGCTGGAGATTCTCGAGCAGCAGAAAAAGTTGA  
TGCTGAGACAGTTGGGAGAGTGAAGAGGTTTATTACAGAGAATGTCTTTGTGGCAGCGAATCATATGGTTCTCC  
CCTTTCTATAAAGGAAGCACCCAAAGAACTCAGCTTCGGTGCACGTGCAGAGCTGCCCAGGATCCACCCAGTTGC  
ATCGAAGCTTCTCAGGCTTATGCAAAGAAGGAGACCAATCTGTGTCTATCTGCTGATGTTTCACTGGCCAGAGA  
GCTGTTGCAGCTAGCAGATGCTTTAGGACCTAGTATCTGCATGCTGAAGACTCATGTAGATATTTGAATGATT  
TACTCTGGATGTGATGAAGGAGTTGATACTCTGGCAAAATGCCATGAGTTCTTGATATTTGAAGACCGGAAGTT  
TGCAGATATAGGAAACACAGTGAAAAAGCAGTATGAAGGAGGTATCTTTAAATAGCTTCCTGGGCAGATCTAGT  
AAATGCTCACGTGGTGCCAGGCTCAGGAGTTGTGAAAGGCTGCAAGAAGTGGGCCTGCCTTTGCATCGGGGTG  
CCTCCTTATTGCGGAAATGAGCTCCACCGGCTCCCTGGCCACTGGGGACTACACTAGAGCAGCGGTTAGAATGGC  
TGAGGAGCACTCTGAATTTGTTGTTGTTTATTTCTGGCTCCCGAGTAAGCATGAAACCAGAATTTCTTCACTT  
GACTCCAGGAGTTCAGTTGGAAGCAGGAGGAGATAATCTTGGCCAACAGTACAATAGCCACACAAGAAGTTATTGG  
CAAACGAGGTTCCGATATCATCATTGTAGGTGCTGGCATAATCTCAGCAGCTGATCGTCTGGAAGCAGCAGAGAT  
GTACAGAAAAGCTGCTTGGGAAGCGTATTTGAGTAGACTTGGTGTGTTGAGTGCTTCAGATACATTTTTCAGATAC  
AATGTGAAGACATTGAAGATATGTGGTCCCTCTGAAAGTCACTGGCTGGAAATAATCCAATTATCTCTGCTTGGG  
TTCTTCCACAGGGCCTGTGTAAGAATGGGTTCTGGAGTTCTCATGGTCTTTAGGAAATATTGAGTAATTTGTAAT  
CACCGCATTGATACTATAATAAGTTCAATCTTAAGCTTGCTTTTTTTGAGACTGGTGTGTTGTTAGACAGCCACAG  
TCCTGTCTGGGTTAGGGTCTTCCACATTTGAGGATCCTTCCATCTCTCCATGGGACTAGACTGCTTTGTTATTC  
TATTTATTTTTTAATTTTTTCGAGACAGGATCTCACTCTGTTGCCAGGATGGAGTGCAGTGGTGAGATCACGG  
CTCATTGCAGCCTCGACCTCCCAGGTGATCCTCCACCTCAGCTTCCAGATTAGCTGGTGCTATAGGCATGCACC  
ACCACGTCCATCTAAATTTCTTTATTATTTGTAGAGATGAGGTCTTGCCATGTTACCCAGGCTGGTCTCAACTCC  
TGGGCTCAAGCGATCCTCCTGCCTCAGTCTCTCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCAGCCTA  
ATTGCAGTAAGACAAAAATTCTAGGGCACCAAGAGGCTAAAGTCAGCACAGCTTTTCTTGTGTCTGTATT



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**FIGURE 1235**

CTCGGGTCTGGTGGCTGCCGGCCCTGCGGCATCTCGCCATGGGAGCACGGAGAGCAGCGAGGGCCGCAGGGTGT  
CCTTCGGAGTGGACGAGGAGGAGCGGGTCCGGGTGCTGCAGGGTGTCCGGCTGTCTGAAAACGTGGTGAACCGCA  
TGAAGGAGCCCAGCTCTCCACCCCTGCTCCACATCTTCTACCTTTGGCCTTCAAGATGGCAACTTGAGAGCCC  
CTCACAAGAATCCACACTGCCCAGGTGCGGGAGCAGTGGTGGCCAGCAGCCCTCAGGGATGAAGGAGGGTGTCA  
AGAGGTATGAACAGGAGCATGCTGCTATCCAGGATAAGCTCTTCCAGGTGGCAAAGAGGGAAAGAGAGGGCTGCCA  
CCAAGCACTCCAAGGCATCCCTGCCCACGGGCGAAGGCAGCATCAGCCATGAGGAGCAGAAGTCAGTCCGGCTGG  
CCAGGGAGCTGGAGAGCAGAGAGGCAGAGCTAAGACGCCGTGACACCTTCTACAAGGAGCAGCTGGAGCGTATTG  
AGAGGAAGAATGCTGAGATGTATAAACTGTCTTCAGAGCAATTCCATGAGGCAGCCTCAAAGATGGAGAGCACAA  
TAAAGCCCCGCAGGGTGGAGCCCCGTCTGCTCAGGGTTGCAGGCCCAGATTCTCCACTGCTACCGAGATCGCCCCG  
ATGAGGTGCTGCTGTGCTCGGACCTGGTCAAGGCATACCAGCGCTGCGTGAGCGCCGCCCAAGGGCTGAGGAG  
CAGACATCATTCCTGCCCTGGCAGTGACTTGGAGCCCTGAAGAAGGGACCAATCATGGGACCACAGCCACTGTG  
CCCTGCCGTTTCTGCTGGGCCCCCTGCATATGCCCTGAGCCTGGGGCTGCCACGTGTTTAGGAAACAAAGTATG  
CGCTACTGTCTGAAAACAAATAAAGCAGATGCCTTTGTTTTTCAGTCAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 1236**

MGSTESSEGRRVVSFGVDEEERVRLQGVRLSENVVNRMKEPSSPPPAPTSSTFGLQDGNLRAPHKESTLPRSGSS  
GGQQPSGMKEGVKRYEQEHAAIQDKLFQVAKREREAATKHSKASLPTGEGSISHEEQKSVRLARELESREAELRR  
RDTFYKEQLERIERKNAEMYKLSSEQFHEAASKMESTIKPRRVEPVCSGLQAQILHCYRDRPHEVLLCSDLVKAY  
QRCVSAAHKG

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**FIGURE 1237**

GAGAGTGGCCAGCGAGGGCAGCGTTTCGCCGCCCCCTCAGGCCCCGTCCCGGCCCGCAGCCGCGCTGCGTTTCGGTT  
TGTGAGCAGGCCCCGGCCGGGCCAGGAGCGAGAGCGAGACTCTGGAGCGGTCCCGCCCGCAGTCGCCCCGGGCCGGG  
AAAGGCGGGCGATGCCCCCAACCGCCGCTCGGGCCATGTCCGAGGGGCGCGGTGTTGTGCGCCCGGGGGCGCCG  
TGCCCGCCTGTCGTCCCCCGGGGCCAGCCGCTCGTCCGAGGCCCCGAGGAGCTGCGCCGCCACCTCGTGGGCCCT  
CATCGAGCGCAGCCGGGTGGTGATCTTCAGCAAGAGCTACTGTCCCCATAGTACTCGGGTGAAAGAACTCTTTTC  
TTCTTTGGGAGTCGAATGTAATGTCTTGGAACCTTGATCAAGTTGATGATGGGGCCAGGGTTCAAGAAGTGCTGTC  
AGAAATCACTAATCAGAAAACCTGTGCCCAATATTTTCGTGAATAAAGTGATGTAGGTGGATGTGACCAAACCTTT  
CCAGGCATATCAGAGTGGTTTGTACAGAAGCTCCTTCAGGAAGATTTGGCATATGATTATGATCTCATCATCAT  
CGGTGGTGGTTCTGGAGGCCCTTCATGTGCGAAGGAAGCTGCCATTTTGGGAAAGAAAGTTATGGTGCTAGACTT  
TGTTGTCCCGTCACCTCAGGGCACATCCTGGGGTCTTGGTGGCAGTTGTGTAAATGTAGGTTGTATTCTTAAGAA  
ATTGATGCATCAGGCTGCCCTTTTGGGGCAGGCATTATGTGACTCAAGGAAATTTGGCTGGGAATATAATCAACA  
AGTGAGGCACAACCTGGGAGACAATGACAAAAGCGATTGAGAACCACATCAGCTCTCTAAACTGGGGCTACAGGTT  
GTCTCTGAGGGAAGAGCTGTGGCCTATGTCAATTCCTATGGAGAATTTGTTGAACATCATAAAATAAAGGCAAC  
CAATAAAAAAGGACAGGAGACTTATTATACTGTGTCACAGTTTGTATAGCAACGGGTGAAAGGCCACGGTATTT  
AGGAATCCAAGGAGATAAAGAATACTGTATTACTAGTGATGACCTTTTTTCTCTGCCCTATTGCCCTGGCAAAAC  
ATTAGTGGTGGGTGCCCTCTTATGTGGCCTGGAGTGTGCAGGGTTCTGGCTGGCTTTGGCCTAGATGTCACAGT  
TATGGTACGCTCAATCCTTCTCCGTGGCTTCGACCAAGAAATGGCAGAAAAAGTGGGTTCTACATGGAGCAGCA  
TGGTGTGAAGTTCCTACGGAATTCATACCTGTGATGGTTCAACAGTTGGAGAAAGGTTACCTGGAAAGCTGAA  
AGTGTGGCTAAATCCACTGAAGGAACAGAAACAATTGAAGGAGTCTATAACACAGTTTGTAGCTATTGGTCG  
TGACTCCTGTACAAGGAAAATAGGCTTGGAGAAGATTGGTGTCAAAATTAATGAGAAGAGTGGAAGAAATACCTGT  
AAATGATGTGGAACAGACCAATGTGCCATATGTCTATGCTGTTGGTGATATTTTGGAGGATAAGCCAGAGCTCAC  
TCCTGTGCGCCATACAGTCAGGCAAGCTGCTAGCTCAGAGACTTTTTGGGGCCTCTTTAGAAAAGTGTGATTATAT  
TAATGTTCCGACTACAGTGTTTACTCCTCTGGAGTATGGTGTGCTGTGGATTATCTGAAGAGAAAGCTATTGAAGT  
ATATAAAAAAGAGAATCTAGAAATATATCATACTTTGTTCTGGCCTCTTGAATGGACAGTAGCTGGCAGAGAGAA  
CAACACTTGTTATGCAAAGATAATCTGCAATAAATTCGACCATGATCGGGTGATAGGATTCATATTCTTGGACC  
AAACGCCGGTGAGGTTACCCAAGGATTTGCAGCTGCAATGAAATGTGGGCTCACAAAACAGCTACTTGATGACAC  
CATTGGAATTCACCCACATGTGGGGAGGTGTTACGACTTTGGAAATCACAAAGTCGTCAGGACTAGACATCAC  
TCAGAAAGGCTGCTGAGGCTAGGCCTGCTGCTGTTTAGTTCTCCTTGTCATATTCTCATTCTCTCAAAGATAAG  
AATGCTCTCGGATAAAATGAGCCTGTGCTCATGACAGCTGCTCTGTTACTCAGGGACCAGTGCCAGGGCTGTCTTA  
CGACACTTAGATGAGAAAGTAGACAAGGAAAGAGGACAGCAGTGGGCATCTGCCCTGTGGTCTTGCTGACAGCGA  
GAAGCAGTGGGACTGCTTCCTTGACGCCTTAGCTTGGAGCCCCGTTATGAGGTGAGCCAAGGCTGACTCTCGCAA  
GCCAGGACTGAGCTTCCTCGGAAAGACCTTTGAGTGGCACCATTACCTAAGTTAGCTTTTCTGGTCTGCTATTG  
TTTTATCCCCTTGCTTTGTTGTTTCTGTGAAAATATATTTTCAGTTAAGAAATGCTATAAAGTAGTGGTTTTTC  
TAGTGCGTGGGCCTAGAATTCACACATGCTCACTGGTGAACAGTGTCTGTGGGCTGCTGTGGGCTGCATTTGGAT  
AGCTGTCTGCATTAGCAGGAAGCTGTACACACTGTGTAGGGTAGTCATCTCTTTTCTTTTGGAGGCACATTTA  
ACCTACTGTCAAACGCTGACTCATGCTTCACCTCACACTCACTACTTGGTGGTGATAACCTTGAAGCTATTCT  
CCCCAATTAATATCTCGAGACTGAGCAAAATATCTCATGTAAGATAAAAGTACTTGAATTGCTTTTTCATGTTT  
ATCTTAATAGTATTATTTCCAAAAGTTTTTAATACTGTATTATGTGAAATCTAACTAATTTATCTGTGAAATAAT  
TCCATCACAGTCTGTTTAAATGATGATAAAGTCCATAAATGAATACAGGT

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**FIGURE 1238A**

AGCGATCCGAGGCCCGCCCCGCCCCGCCCCGCGCCGCGCCGCGCCGCTTGCCGCGGGGCTAGCACTGACGTGT  
CTCTCGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC  
TGAAGCGGGACCCGAGCCCGAGCAGCCGCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT  
CATCCTGCCGGAATTCAGAAGCCAGAGAGGAAGATTCAAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACCT  
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCAAGCTGACCCCTTCTATTG  
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTACAGTCTGGCCT  
TATAATGCAACTCTTGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCAAAAGACCGAGCTCTCTTCAACGG  
AGCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGATGTATGGGGA  
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTCAAGCTCTTGTGTGCTGGCTTAATTGTCTACT  
TTTGGATGAACCTCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTTTCATTGCAACTAACATCTGTGA  
AACCATCGTATGGAAGGCATTCAAGCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT  
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT  
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAGTGGTCATCTATTTCCAGGGCTTCCGAGTGA  
CCTGCCAATCAAGTCGGCCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT  
CCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTTCATCTCCCAAATGCTCTCAGCTCGCTTCAGTGG  
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTCGGACACGTCTTCTGGGGGCCCCAGCACGTGCTTATCCAGTTGG  
TGGCCTTTTGCTATTACCTGTCCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA  
CATAGTGTTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAAGA  
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTCAA  
CCGGTACATCCCCACAGCCGCGGCCCTTTGGTGGGCTGTGCATCGGGGGCCCTCTCGGTCTCGGCTGACTTCCTAGG  
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA  
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA  
GAAGCGCCTCGGAAGGGGAGCTCTCATCATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA  
TTTCGTATTCTTTCACTTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAATTTTGCTTTTTATCCTGGCAC  
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTACGCCGACTGCCAGAGAAGTGGGAATGGTATAGGATTGTCCC  
CAAGTGTCATGTAACCTTTTGTTTTAACTTTTGACCTTCTCAGTGCTGTATGCGGCTGCAGCCGTCTCACCTGT  
TTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCATTTTGGCAGTAG  
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACAATCAGG  
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATGTTTTCCCTTATTTTAAAGTGATTTTTTT  
AAGGACAGAATCTTCCAAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTGTCTGT  
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTAG  
TCCACTTGGGTATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCAGTGATGTCCGT  
TGTCCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT  
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCCACACCTTCTGGGCTGAAGATCACCCAGCTGTGT  
TCAGAATTTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTTCTGCGTCACCAGT  
GTCGTGAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTTCGGGTGCATGGGCTGTGGTG  
GTGTTGATCAGTTGCTCCAGTGTTTGAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA  
CAGGTGGCCTAGGTCTGGAGATGAGCACCTCTCTCTGGCCTTTAGGGAGTCCCTCTTAGGACAGGCACTGCC  
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCAGCTGGCTTTAGACATTGGT  
GGGACCAAGGATGTTTTCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGACGCTGTCTGGGGAGA  
CCCCACTCTGACAGTGGGCACACGGCAGCCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT  
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAACAGAGTGACCAAGGGACAAGAAGGACTTGCCCTAAAGCCACC  
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGGCTTACCACCTATCACACG  
TGGCCTTGCTAGACCCAGTCTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCTACCCACATGGTTCTC  
CCACTGCCCTGTCTGCTCTGCTGCTACAGAGGGGACAGGCTCCTCCAGCCACGCTTAGGAATGCTTGCCCTGTG  
GCAGGCAGGCAGCTGTACCAAGCTGGTGGGACAGGGGCTGGAAGGCACACAGGCTCAGGAGGAGCCCATAGTC  
CCGCTGACGCTGTAAACATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG  
GTGGGTGGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAAATGGCATAACTGAGATAAGGTGA

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**FIGURE 1238B**

ATAAGTGACAAATAAGCCAGTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1239**

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIIFLVCCQIPLFGIMSSDSADPFYWMRVILASNRGT  
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL  
ITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTD  
KVRALREAFYRQNLPLNLMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIPITILQSALVSN  
LYVISQMLSARFSGNLLVSLTWSDTSSGGPARAYPVGGLCYLSPPEFSGSVLEDPVHAVVYIVFMLGSCAFF  
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA  
VTIIYQYFEIFVKEQSEVGSMGALLF

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**FIGURE 1240**

ATGAAGATTGAGGAGGTGAAGAGCACTACGAAGACGCAGCGCATCGCCTCCACAGCCACGTGAAAAGGGCTGGGG  
CTGGACGAGAGCGGCTTGGCCAAGCAGGCGGCCCTCAGGGCTTGTGGGCCAGGAGAACGCGCGAGAGGTGTGGCCA  
GTGGACCAGGGAGTTGGGGGCTGCAAGCAGGGCTGCTGCGGCGAGAGAGCTGCTGAAGTCGGGCCTGCAGGTGCT  
CCAGGTTCAGCGGGCGACTTTGGCCGCTGCAGAGACCGAGATACGCGGGGTAACAGCCCGTTCCGGAGCCGGTTCAT  
CAGGCGCCAAGCCCCGCTGGGCTCCTCGCAGCCGCGGGACCTTCTCCGCCCTTCCCGAGGCTGAGTTTCTGAA  
CGGGAAGCTGCCGGCCCGGGGGCAGCCGGGAGCAGCCAGGGCGTGAGGACGTGGGTTCCTGTCACCCCCGGCTT  
GGAACAGCAGCGCCGCAACAACCGCTGGCGTTCATCGAGCCTCTCAGCAGCCCTGCGAGGCGATCCCGGGGAGAA  
TCCCACGCCACAGCCGAGGAACTGAGGCAGGCAGGGTGACACACAGCCAGTAGTGGCGGGCGGGCGCCAGGC  
TGCCACCGCGCTGAGGACCGGCCCCCTCTGCCAGCCGGGAGGCGTGGGGCAGGACAGCCGCGCTCTCGCCAGGGCC  
CAGAGCCCCACTTTGCCAAGGAGCTGTCGCTGGAGCGGTGACTTTGTTTCAGGGCCGAGAACCGGAGGAGGAGGCC  
AGACTTGCTGCTGGGCAGCTGGCACATGGGACATGGGGTGTTATGACTCCAGCATTATGGAGCGCCTGCTGTGT  
GCTCTGCAGGTGAGCAATGTGAGGCTCAGAGAAGAGAAACAGAAAGCCCGGAGGCTTGAGTGGGTGAGACACCCA  
TCAGGAGCTTGGCATGAGTATGACAGCTCCTTGACGCAAAGTCCAGGGGGCATGAGTGCTGGGGCCATTGCAGGC  
ACCAGGACCCAAGCCTAG

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**FIGURE 1241**

MVDRLRPVKFFLLMGQPEAQGGPAGAPGQRATLAAAETEIRGVTARSGAGHQAPSPAGLLAAAGFFSALPEAE  
FPEREAAAGPRGSREQPGREDVGSRHPRLGTAAPQQPLAFIEPLSSPARRSRGESHATAEETEAGRVTHSPVVAGG  
RPGCHRAEDRPLCQPGGVGQDSRALARAQSPILPRSCRWSGDFVQGREPEEEARLAAGQLAHGTWGVMTPAFMER  
LLCALQVSNVRLREEKQKARLEWVRHPGAWHEYDSSLTQSPGGMSAGAIAGTRTQA



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**FIGURE 1242**

AGGTAAAGGGAGAAGATGAGGAAGAGAACAAATTTGGAAGTACGTGAAACCAAATTAAGGGTAAAAGTGGGAGAT  
TCTTCACAGTCAAGCTCCCAGTTGCTCTTGATCCTGGGGCCAAGATTTTCAGTCATTGTGGAAACAGTCTACACCC  
ATGTGCTTCATCCATATCCAACCCAGATCACCCAGTCAGAGAAACAGTTTGTGGTGTGGAGGGGAACCATATT  
TCTACTCTCCCTATCCAACGAAGACACAAACCATGCGTGTGAAGCTTGCCTCTCGAAATGTGGAGAGCTACACCA  
AGCTGGGGAACCCACGCGCTCTGAGGACCTACTGGATTATGGGCCCTTTCAGAGATGTGCCTGCCTATAGTCAGG  
ATACTTTTAAAGTACATTATGAGAACAACAGCCCTTTCCTGACCATCACCCAGCATGACCCGAGTCATTGAAGTCT  
CTCACTGGGGTAATATTGCTGTGGAAGAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCTTCT  
CACGCTATGATTACCAGAGACAGCCAGATAGTGGAAATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTG  
CTGCCCAGGATGTTTATTACCGGGATGAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTGGATGACTCTG  
TAGAGATGGAAATCCGGCCTCGCTTCCCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCC  
CAAGCTATGAGTACCTCTATAATTTGGGTGACCAGTATGCACITGAAGATGAGGTTTGTGGACCATGTGTTTGATG  
AACAAAGTGATAGATTCTCTGACTGTGAAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCT  
ATGAAATCAGCCGTGCCCCAGATGAGCTGCACTACACCTATCTGGATACATTTGGCCGCCCTGTGATTGTGCCT  
ACAAGAAAAATCTGGTAGAACAGCACATTACAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGTGC  
AGGAGCCCCTGTGTTGGTGGCGGCCTTCTACATCCTGTTCTTACCCTTATCATCTATGTTGGGCTGGACTTCT  
CCATCACCAAGGATCCAGCCGAGAGCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCTTGGTCA  
ACAAGAGAATAGGCCTTACCGTCACTTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCC  
TCAACAGTGGCAAGAAGAGCCTGGAGACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGC  
TGAAGACAGAGGGCTCTGATCTGTGCGACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGG  
TGCTGAAGTCGGCGGTGGAGGCTGAGCGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGA  
AGCTCATCTCAGGAAAGCGCCAGGAGCTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCCTGCCCG  
CATCTCCAGGGGGCCAGGGTGCCTGCACTTTGTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATG  
GAGGCCAGTGAAAGCTGACATCTGTAAAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGT  
TTGCCGTTTGTCTTAACTTCTTTTTTTTTTTTTTTTTTAAAAAAGAAAACCTTAAAAAACTCCATTAAAAACA  
AAACATCTTGTGTTTTGAACAAAGGAATTTTCAATATTGATTGGTATTCTGTTCTGAAGTCTAGGATATTTTT  
CAGCCTATAAAGCCCCCTGTTTTATGCCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTT  
TTTTTTTTTTTTTAAAGCGTGTGTGAACAAATGGAATAAAGCAGGGACTGTG

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**FIGURE 1243**

CTGCTCTTCCCGGTTCATGGAGGCGCCAGCCGCGGCTTGTTTCTGCTCCTGTTGCTTGGGACTTGGGCCCCGGCG  
CCGGGCAGCGCCTCCTCCGAGGCACCGCCGCTGATCAATGAGGACGTGAAGCGCACAGTGGACCTAAGCAGCCAC  
CTGGCTAAGGTGACGGCCGAGGTGGTCCTGGCGCACCTGGGCGGCGGCTCCACGTCCCAGCTACCTCTTTCTTG  
CTGGCTTTGGAGCCTGAGCTCGAGGCCCCGGCTGGCGCACCTGGGCGTGCAGGTAAAGGGAGAAGATGAGGAAGAG  
AACAATTTGGAAGTACGTGAAACAAAATTAAGGGTAAAGTGGGAGATTCTTCACAGTCAAGCTCCCAGTTGCT  
CTTGATCCTGGGGCCAAGATTTAGTCAATTGTGAAACAGTCTACACCCATGTGCTTCATCCGTATCCAACCCAG  
ATCACCAGTCAGAGAAACAGTTTGTGGTGTGAGGGGAACCATTAATTTCTACTCTCCCTATCCAACGAAGACA  
CAAACCATGCGTGTGAAGCTTGCCTCTCGAAATGTGGAGAGCTACACCAAGCTGGGGAACCCACGCGCTCTGAG  
GACCTACTGGATTATGGGCCTTTAGAGATGTGCCTGCCTATAGTCAGGATACTTTAAAGTACATTATGAGAAC  
AACAGCCCTTTCTGACCATCACCAGCATGACCCGAGTCATTGAAGTCTCTCACTGGGGTAATATTGCTGTGGAA  
GAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCTTTCTCACGCTATGATTACCAGAGACAGCCA  
GATAGTGAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTGCTGCCAGGATGTTTTATTACCGGGAT  
GAGATTGGCAATGTTTTCTACCAGCCACCTCCTTAATTTGGATGACTCTGTAGAGATGGAAATCCGGCCTCGCTTC  
CCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCCCAAGCTATGAGTACCTCTATAATTTG  
GGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATGAACAAGTGATAGATTCTCTGACTGTG  
AAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCTATGAAATCAGCCGTGCCCCAGATGAG  
CTGCACTACACCTATCTGGACACATTTGGCCGCCCTGTGATTGTTGCCTACAAGAAAAATCTGGTAGAACAGCAC  
ATTGAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGCAGGAGCCCCCTGCTGGTGGTGGCGGCC  
TTCTACATCCTGTTCTTCACCGTTATCATCTATGTTTCGGCTGGACTTCTCCATCACCAAGGATCCAGCCGCAGAA  
GCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCTGGTCAACAAGAGAATAGGCCTTTACCGTCAC  
TTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCCTCAACAGTGGCAAGAAGAGCCTGGAG  
ACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGCTGAAGACAGAGGGCTCTGATCTGTGC  
GACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGGTGTGTAAGTCGGCGGTGGAGGCTGAG  
CGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGAAGCTCATCTCAGGAAAGCGCCAGGAG  
CTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCCTGCCCGCATCCTCCAGGGGGCCAGGGTGCCT  
GCACTTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATGGAGGCCAGTGAAAGCTGACATCTGTA  
AAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGTTTGCCGTTTGTCTTAACTTTCTTTT  
TTTTTTTTTTTTAAAAAAGAAAACTTTAAAAAACTCCCATTAATAACAAACATCTTTGTGTTTTGAACAAAGG  
AATTTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAAGATATTTTTCAGCCTATAAAGCCCCCTGTTTTATG  
CCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTTTTTTTTTTAAAGCGTGTGTGAACA  
AATGGAATAAAGCAGGGACTGTG

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**FIGURE 1244**

GTGAGCGCCAGGAAGGTAGCGAGGCCAGCGTCGCCCCGGGACTCGCTGCTCAAGTCTGTCTATTGCCTGCCGCCA  
CATCCATCCTAGCAGGGCCCCGTCGCCCACCAGGCGGACAAAAGCGGTCCGCTGAACACCATGCGGGCCGCTCGGC  
GTGCCGCCCAGGCTCTGCTGGTGAGCGCCGCCACCCCGCGCCAGGTCCCGCGAGCCCGCTGCCGCGCACCTCG  
CCCTGCTCCAGCTCTACTCCAGGCCCGTCCGCCCCGGGGCGCCGCCACCGCGCTCGCTCGGGCCGTTGCCG  
TCTGCACCCAGACCCTGAGCCGCCCGCCGCCGATGGAGGTGGCGCCCGAGCAGCCGCGCTGGATGGCGCACCC  
GGCCGTGCTGAATGCGCAGCACCCCGACTCACACCACCCGGGCTGGCGCACAACTACATGGAACCCGCGCAGCT  
GCTGCCTCCAGACGAGGTGGACGTCTTCTCAATCACCTCGACTCGCAGGGCAACCCCTACTATGCCAACCCCGC  
TCACGCGCGGGCGCGCTCTCTACAGCCCCGCGCAGCCCGCTGACCGGAGGCCAGATGTGCCGCCACACTTG  
TTGCACAGCCCCGGTTTGGCCTGGCTGGACGGGGGCAAAGCAGCCCTCTCTGCCGCTGCGGGCCACCACACAAC  
CCCTGGACCGTGAGCCCCCTCTCCAAGACGCCACTGCACCCCTCAGCTGCTGGAGGCCCTGGAGGCCACTCTCT  
GTGTACCCAGGGGCTGGGGGTGGGAGCGGGGAGGCAGCGGGAGCTCAGTGGCCTCCCTCACCCCTACAGCAGCC  
CACTCTGGCTCCACCTTTTCGGCTTCCACCCACGCCACCCAAAGAAGTGTCTCTGACCCTAGCACCACGGGG  
GCTGCGTCTCCAGCCTCATCTTCCGCGGGGGGTAGTGCAGCCCGAGGAGAGGACAAGGACGGCGTCAAGTACCAG  
GTGTCACTGACGGAGAGCATGAAGATGGAAGTGGCAGTCCCTGCGCCCAGGCCCTAGCTACTATGGGCACCCAG  
CCTGCTACACACCACCCATCCCCACCTACCCCTCCTATGTGCCGGCGGCTGCCACGACTACAGCAGCGGACTC  
TTCCACCCCGGAGGCTTCTCTGGGGGACCGGCTCCAGCTTACCCCTAAGCAGCGCAGCAAGGCTCGTTCTCTGT  
TCAGAAGGCCGGGAGTGTGTCAACTGTGGGGCCACAGCCACCCCTCTCTGGCGCGGGACGGCACCGGCCACTAC  
CTGTGCAATGCCTGTGGCCTTACCAACAAGATGAATGGGCAGAACCGACCACTCATCAAGCCCAAGCGAAGACTG  
TCGGCCGCCAGAAGAGCCGGCACCTGTTGTGCAAAATTGTGACGACAACCACCACCTTATGGCGCCGAACGCC  
AACGGGGACCCCTGTCTGCAACGCCCTGTGGCCTCTACTACAAGCTGCACAATGTTAACAGGCCACTGACCATGAAG  
AAGGAAGGGATCCAGACTCGGAACCGGAAGATGTCCAACAAGTCCAAGAAGAGCAAGAAAGGGGCGGAGTGTCTC  
GAGGAGCTGTCAAAGTGATGCAAGGAGTATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCT  
GTGGGCCACCTCCCGCCCTTCAGCCACTCCGGACACATCTGCCCCACTCCGACGCCCATCCACCCCTCTCCAGC  
CTCTCCTTCGGCCACCCCAACCCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTCGAGGACCG  
GGCACTCCCGGGATGGGTGGACCAACCCCTTAGCAGCCCAGCATTTCGGAAGGCCGACACCACTCCTGCCAGCC  
CGGCTCGGCCCAGCACCCCTCTCCTGGAGGGCGCCAGCAGCTGCCAGCAGTTACTGTGAATGTTCCCAACCG  
CTGAGAGGCTGCCTCCGCACCTGACCGCTGCCAGGTGGGGTTTCTGTCATGGACAGTTGTTTGGAGAACAACAA  
GGACAACCTTTATGTAGAGAAAAGGAGGGGACGGGACAGACGAAGGCAACCATTTTGTAGAGGAAAAGGATTAGG  
CAAAAATAATTTATTTTGTCTTGTCTTAACAAGGACTTGGAGACTTGGTGGTCTGAGCTGTCCCAAGTCCCTCC  
GGTTCTTCTCGGGATTGGCGGGTCCACTTGCCAGGGCTCTGGGGGCAGATTTGTGGGGACCTCAGCCTGCACCC  
TCTTCTCCTCTGGCTTCCCTCTCTGAAATAGCCGAATCCAGGCTGGGCTGAGCCAAAGCCAGAGTGGCCACGGC  
CCAGGGAGGGTGAGCTGGTGCCCTGCTTTGACGGGCCAGGCCCTGGAGGGCAGAGACAATCACGGGCGGTCTGCA  
CAGATTCCAGGCCAGGGCTGGGTACAGGAAGGAAACAACATTTTCTGAAAGGGGAAACGTCTCCAGATCGC  
TCCCTTGGCTTTGAGGCCAAGCTGCTGTGACTGTGTCCCTTACTGAGCGCAAGCCACAGCCTGTCTTGTGAGG  
TGGACCCTGTAAATACATCCTTTTTCTGTAAACCTTCAACCCCTCGCCTACTACTCTGAGAC

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**FIGURE 1245**

GTCAAAGTGCATGCAGGAGAAGTCATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCTGTGGGCCA  
CCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCACTCCGACGCCCATCCACCCCTCCTCCAGCCTCTCCTT  
CGGCCACCCCAACCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTCGAGGACCGGGCACTCC  
CGGGATGGGTGGACAAACCTTAGCAGCCCAGCATTTCCCGAAGGCCGACACCACTCCTGCCAGCCCGGCTCGA  
CCCAGGGAGAGGCTGTGTCCCTGCTGGGGTCTCAGGTCCAGCTTTACTGTGGCTGTCTGGATCCTTCCCAAGGTA  
CAGCTGTATATAAACGTGTCCCGAGCTTAGATTCTGTATGCGGTGACGGCGGGGTGTGGTGGCCTGTGAGGGGCC  
CCTGCCCCAGGAGGAGGATTGTGCTGATGTAGTGACCAAGTGCAATATGGGCGGGCAGTCGCTGCAGGGAGCACC  
ACGGCCAGAAGTAACTTATTTGTACTAGTGTCCGCATAAGAAAAAGAATCGGCAGTAT

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**FIGURE 1246**

GGCACGAGGATAAAGCCTGAGGCGGCGGCAGCGCGGAGTTGGCGGCTTGGAGAGCTCGGGAGAGTTCCTTGAA  
CCAGAACTTGGACCTTCTCGCTTCTGTCCTCCGTTTAGTCTCCTCCTCGGCGGGAGCCCTCGCGACGCGCCCGGC  
CCGGAGCCCCCAGCGCAGCGGCCGCGTTTGAAGGATGACCTCTAGGAAGAAAGTGTGCTGAAGGTTATCATCCT  
GGGAGATTCTGGAGTCGGGAAGACATCACTCATGAACCAGTATGTGAATAAGAAATTCAGCAATCAGTACAAAGC  
CACAATAGGAGCTGACTTTCTGACCAAGGAGGTGATGGTGGATGACAGGCTAGTCACAATGCAGATATGGGACAC  
AGCAGGACAGGAACGGTTCCAGTCTCTCGGTGTGGCCTTCTACAGAGGTGCAGACTGCTGCGTTCTGGTATTTGA  
TGTGACTGCCCCAACACATTCAAAACCCTAGATAGCTGGAGAGATGAGTTTCTCATCCAGGCCAGTCCCCGAGA  
TCCTGAAAACCTTCCCATTTGTTGTGTTGGGAAACAAGATTGACCTCGAAAACAGACAAGTGGCCACAAAGCGGGC  
ACAGGCCTGGTGTACAGCAAAAACAACATTCCCTACTTTGAGACCAGTGCCAAGGAGGCCATCAACGTGGAGCA  
GGCGTTCCAGACGATTGCACGGAATGCACCTTAAGCAGGAAACGGAGGTGGAGCTGTACAACGAATTTCTGAACC  
TATCAAACCTGGACAAGAATGACCGGGCCAAGGCCTCGGCAGAAAGCTGCAGTTGCTGAGGGGGCAGTGAGAGTTG  
AGCACAGAGTCCTTCACAAACCAAGAACACACGCTAGGCCTTCAACACAATTCCCCTCTCCTCTTCCAAACAAAAC  
ATACATTGATCTCTCACATCCAGCTGCCAAAAGAAAACCCCATCAAACACAGTTACACCCACATATCTCGCACA  
CACACACACACACGCACACACACACACAGATCTGACGTAATCAAACCTCCAGCCCTTGCCCGTGATGGCTCCTT  
GGGGTCTGCCTGCCACCCACATGAGCCCGCAGTATGGCAGCAGGACAAGCCAGCGGTGGAAGTCATTCTGATA  
TGGAGTTGGCATTGGAAGCTTATTCTTTTTGTTCACTGGAGAGAGAGAACTGTTTACAGTTAACTCTGTGTCTA  
ATTATCTGATTTTTTTTATTGGTCTTGTGGTCTTTTTACCCCCCTTTCCCCTCCCTCCTTGAAGGCTACCCCTT  
GGGAAGGCTGGTGCCCCATGCCCCATTACAGGCTCACACCCAGTCTGATCAGGCTGAGTTTGTATGTATCTATC  
TGTTAATGCTTGTTACTTTTAACTAATCAGATCTTTTACAGTATCCATTATTATGTAATGCTTCTTAGAAAAG  
AATCTTATAGTACATGTTAATATATGCAACCAATTAAAAATGTATAAATTAGTGTAACAAAAAAAAAAAAAAAAA

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**FIGURE 1247**

MSFSSRPVPEILKTSHELLCWETRLTSKTDKWPQSGHRPGATAKTTFPTLRPVRRPSTWSRRSRRLHGMHLSRKR  
RWSCTTNFLNLSNWTRMTGPRPRQKAAVAEGAVRVEHRVLHKPRTHVGLQHNSPLLFTKHTLISHIQLPKENPI  
KHSYTPHISHTHTHTHTHRSQVIKLQPLPVMAPWGLPAHPHEPASMAAGQASGGSHSDMELALEAYSFCSLER  
ERTVYS

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**FIGURE 1248**

AGAATCTTCAGTTTCTGTGAGCGTCCGCTTCGTCTGGGCACTTCCGGTACTCCCATTTCAGTTCCGGTCCCTGTCT  
TTTACGTTTCCGGCAAAACATCAGTGTCTGTGGGTAGTTGGAATCTTCAGTTCCGTGTGAGCGTCCGGCGTCTTCTG  
GGCCTGTGGAGTTTCTTGGACAGGGGCCGCGGGGCTCCAGGACGGCGCCCTTAGCGACACCATGGCCCGAAATGC  
AGAAAAGGCCATGACGGCCTTAGCAAGATTTCCGCCAGGCTCAGCTGGAAGAGGGAAAAGTGAAGGAACGAAGACC  
CTTTCTGGCCTCAGAATGTACTGAAGTGCCTAAAGCTGAGAAGTGGAGACGACAGATCATTGGAGAGATCTCTAA  
AAAAGTGGCTCAGATTGAGAAATGCTGGTTTAGGTGAATTTCAATTCGTGACCTGAATGATGAAATTAACAAGCT  
GCTAAGGGAGAAAGGACACTGGGAGGTCCGGATAAAGGAGCTGGGAGGTCCCTGATTATGGAAAAGTTGGCCCTAA  
AATGCTGGATCATGAAGGAAAAGAAGTCCCAGGAAACCGAGGTTACAAGTACTTTGGAGCAGCAAAAGATTGCCC  
TGGTGTAGAGAGCTGTTTGAAAAAGAACCTCTTCTCTCCAGAAAGACACGTGCTGAGCTCATGAAGGCAAT  
CGATTTTGAGTACTATGGTTACCTAGATGAAGATGATGGTGTATTGTGCCTTTGGAACAGGAATATGAAAAGAA  
ACTCAGAGCCGAGTTAGTGGAAAAGTGGAAAGCAGAGAGAGAGGCTCGGCTGGCAAGAGGAGAAAAGGAAGAGGA  
GGAGGAAGAGGAGGAAGAGATCAACATCTATGCAGTCACCGAGGAGGAGTCCGACGAGGAAGGCAGCCAGGAGAA  
AGGAGGGGACGACAGCCAGCAGAAGTTCATTGCTCACGTCCCTGTTCCTCGCAGCAAGAGATTGAGGAGGCACT  
GGTGCGAAGGAAGAAAATGGAACCTCCAGAAGTATGCAAGCGAGACCCCTGCAGGCCCCAAGTGAAGAAGCCAG  
AAGGCTCCTGGGGTATTAGGACCCAGCTGGGGCTCTCCTTGGAGTTCTTCCATCCCCCAGTGGTACCTCAGGACC  
CAGGGCTGCAGACACAGGCTGGTGTGCAAGGGCTCCTGCCCCATTCTCAGCCTTCCTTCCCTCTCCTTGCTCA  
TGTTGACCGGAGGGTAGGGGTCTGTCCCTGGTCTTCCCTGGTAGGTTTTGTACACATATTTTGCTACTGTGTGGAT  
CCATTTATTTTTATTGTGGAGTGTATACAACAGGTTGCGAACTGGCTGCCTGTGTCTTATTTTGACTTGCACTGC  
CATTTTGAGGGGAGAAGAATCAATTAGTGGCAAACATTTAAAAATGCAATTTTTTGAGACCAAAGTATAATTTT  
AAAAATGCAATTTTCTAAAAGACACATCTTTGAAAAATGAGATGATGTGGCCAGGCGCAGTGGCTCACGCCT  
GTAACCCAGCACTTTGGGAGGCCGAGCGGGCGGGTCACGAGGTCAAGAGATGGAGACCATCCTGGCCAACATG  
GTGAAACCCCATGTCTACTAAAAATACAAAAAATTAGCTGGGCGTACTGGCATGCACCTGTAGTCCCAGCTGCT  
TGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGAGAGGTGGAGGTTGAAGTGAGCCAAGATCGTGCCATTGCAC  
TCCAGCCTGGCGACAGAGTGAGACTCTGTCCCACAAAAAAAAAAAAAAAAA

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**FIGURE 1249**

MARNAEKAMTALARFRQAQLEEGKVKERRPFLASECTELPKAEKWRRQIIGEISKVQAQIQNAGLGEFRIDLND  
EINKLLREKGHWEVRIKELGGPDYGVGPKMLDHEGKEVPGNRGYKYFGAAKDLPGVRELFEKEPLPPPRKTRAE  
LMKAIDFEYYGYLDEDDGVIVPLEQEYEKKLRAELVEKWKAEAREARLARGEKEEEEEEEEEINIYAVTEESDEE  
GSQEKGGDSQQKFIAHVPVPSQQEIEEALVRRKKMELLQKYASETLOAQSEEARRLLGY



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**FIGURE 1250**

GAATTCCAAACAGCCTCTACCTTGCGAGCCGTCTTCCCCAGGCCTGCGTCCGAGTCTCCGCCGCTGCGGGCCCCGC  
TCCGACGCGGAAGATCTGACTGCAGCCATGAGCAGCAATGAGTGCTTCAAGTGTGGACGATCTGGCCACTGGGCC  
CGGGAATGTCTACTGGTGGAGGCCGTGGTCGTGGAATGAGAAGCCGTGGCAGAGGTGGTTTTACCTCGGATAGA  
GGTTTCCAGTTTGTTCCTCGTCTCTTCCAGATATTTGTTATCGCTGTGGTGAGTCTGGTCATCTTGCCAAGGAT  
TGTGATCTTCAGGAGGATGCCTGCTATAACTGCGGTAGAGGTGGCCACATTGCCAAGGACTGCAAGGAGCCCCAAG  
AGAGAGCGAGAGCAATGCTGCTACAACGTGGCAAACCAGGCCATCTGGCTCGTGACTGCGACCATGCAGATGAG  
CAGAAATGCTATTCTTGTGGAGAATTTCGGACACATTCAAAAAGACTGCACCAAAGTGAAGTGTATAGGTGTGGT  
GAAACTGGTCATGTAGCCATCAACTGCAGCAAGACAAGTGAAGTCAACTGTTACCGCTGTGGCGAGTCAGGGCAC  
CTTGACGCGGAATGCACAATTGAGGCTACAGCCTAATTATTTTCTTTGTGCCCCCTCCTTTTTCTGATTGATGG  
TTGTATTATTTTCTCTGAATCCTCTTCACTGGCCAAAGGTTGGCAGATAGAGGCAACTCCCAGGCCAGTGAGCTT  
TACTTGCCGTGTAAAAGGAGGAAAGGGGTGGAAAAAACCGACTTTCTGCATTAACTACAAAAAAGTTTATGT  
TTAGTTTGGTAGAGGTGTTATGTATAATGCTTTGTTAAAGAACCCCTTTCCGTGCCACTGGTGAATAGGGATTG  
ATGAATGGGAAGAGTTGAGTCAGACCAGTAAGCCCGTCTGGGTTCTTGAACATGTTCCCATGTAGGAGGTAAA  
ACCAATTCTGGAAGTGTCTATGAACCTCCATAAATAACTTTAATTTTAGTATAATGATGGTCTTGGATTGTCTGA  
CCTCAGTAGCTATTAAATAACATCAAGTAACATCTGTATCAGGCCCTACATAGAACATACAGTTGAGTGGGAGTA  
AACAAAAAGATAAACATGCGTGTTAATGGCTGTTTCGAGAGAAATCGGAATAAAAGCCTAAACAGGAACAACCTCA  
TCACAGTGTGATGTTGGACACATAGATGGTGATGGCAAAGGTTTAGAACACATTATTTTCAAAGACTAAATCTA  
AAACCCAGAGTAAACATCAATGCTCAGAGTTAGCATAATTTGGAGCTATTCAGGAATTGCAGAGAAATGCATTTT  
CACAGAAATCAAGATGTTATTTTGTATACTATATCACTTAGACAACGTGTGTTTCATTGCTGTAATCAGTTTTT  
AAAAGTCAGATGGAAGAGCAACTGAAGTCCTAGAAAATAGAAATGTAATTTTAAACTATTCCAATAAAGCTGGA

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**FIGURE 1251**

MSSNECFKCGRSGHWARECPTGGGRGRGMRSRGRGGFTSDRGFQFVSSSLPDICYRCGESGHLAKDCDLQEDACY  
NCGRGGHIAKDCKEPKREREQCCYNCGKPGHLARDCDHADEQKCYSCGEFGHIQKDCTKVKCYRCGETGHVAINC  
SKTSEVNCYRCGESGHLARECTIEATA

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**FIGURE 1252**

CATGGCTGCCCTCAGATCCCTTGTGAAGCCCAAGATCGTCAAAAAGAGAACCAAGAAATTCATCCGGCACCAGTC  
AGACCGATATGTCAAAATCAAGATGAGAAGAATAATGTCTGGGGTGAAGGTGAAGCACCCAGCCCCAAGACTCAGC  
AGCCAGGAAGTGGCCAGCGCTCTTTATACCACGGGTGCAGGAATTCACACAGAAAAGTGGAGGCCAAGGCGTGA  
GAATTCCTCAATGACTGCCCTCTAAAGGAAGAGGACCAGGCTTCCTGTCTAGAGACTGAGGACCCAGGAAGAAACA  
TGTCTCGGGCCCTGTCCCCCTCCACAATTCAGAGGCCACATTCTAACAGGGGAGGCTGACCAATTAAACAGATAA  
TGACACCTCCTAGAGCTAAGAGCTCTCCGACTATGAACCAGATGCCTGGAGAACACGGATGAATGGTCTGAGCAT  
GAGCAGGGGTGGGAGGCAGCGTTAAGGGAGGCATCAGAGTCAGAACCCTAGCAAACAAGTGTGTTGTGAAGAAGAAT  
TCATAGAAAAGGGCAATGCGGGCATCACATGGGCTAAGGAACAGAGGGGTAGCAGTAGCTGTTGTGCCAAGCTGC  
AGGTGTTATACACTACCTCTAGATCTGGGTTTCCTTAAACACCTTGAGAGGACAACCCTGCAAAGCACGGCAC  
AGTGGCCGAGAGGGAAGGAGCATTGAGGTCTCAGTCTCGCTCTGAGCCTACTTCTCTGCTCTGCGGCTCCAG  
CCATCTTTGTGGAAGGGGGCTGCTAGTGACACCTCTCAAGGGTCTTTCCAGCTCTAGGTCGGCTGTGCTGGAG  
TCTAGGATTTGCCCACTGAGAAATCTGTTTCCAAGTTCCTTCAACCTGATGCATCCTGCAGCATCACGGCAGCTG  
TTCAGAGTGGTCAGAAGGCCCCCTGAATGAGCTCAGTAGAGGGAAGCCTGGGAACAGGGAGGCACCTGCAGCTCTA  
CTCATGGCCTGGCCAGAGCTCAGCAGCTCTTCTCTGCCATCTAGTGGGGATGGCATAACCATCACTGGGGACCACC  
CTGTGCAAACCTGGTGAGCCTGAGTGCCGTGCACAGAGGGAAAGAAAGGGGGGGGATACAGGATTTAGATGAAATA  
GCAACTCTACCTATTGTCAAATCATCCAGCTTTTTCAAACATCATATTGTACTGATTTTTTGTGTTTTTG  
ACAGAGTCTTGCTGTGTACCAAGGCTGGAATGCAGTGGGATGATCTCGGCTCACTGTAGCCTCTGTCTCCCTGG  
TTCAAGCAATTCTGCCCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGCGCCACCACACCAGCTAAGTTTTGT  
ATTTTTTTAGTAGAGTCAGGGTTTTACTTTGGCCAGGCTGGTCTTAAACTCCTGGCCTCACTGATCTGCCTGTC  
TCGGCCTCCCAAAGAACTGGGATTACAGGCATGAGGCACCGTGCCTGTCCCATGTTGTACTTAATAGATATTTAC  
CATATACAATTATTTTTTAATTTAAATAAATCAATGAACAGTGTATTTTTT

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**FIGURE 1253**

MHPAASRQLFRVVRRLNELSRGKPGNREAPAALLMAWPELSSSSLPSSGDGIPSLGTTLCKLVSLSACHRGKER  
GGIQDLDEIATPTLLSKSSSFFKTSYCTDFFVFLTESCCVTKAGMQWHDLGSL

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**FIGURE 1254**

GGTGGCGTGGGGACTCCCTGAAAGCAGAGCGGCAGGGCGCCCGGAAGTCGTGAGTCGAGTCTTCCCGGGCTAATC  
CATGCCGGGTTGGAGGCTGCTGACGCAGGTCGGCGCCAGGTGCTGGGTGCGACTCGGGGACGGCCTGGGTGCTGC  
CCTGGGCCCCGGGAACAGAACACACATCTGGCTTTTTGTTAGAGGTCTTCATGGAAAGAGTGGTACATGGTGGGA  
TGAGCATCTTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAAGCCCAATTAGCAAG  
TAAACTGTGTCCTCTGAAAGATGAACCATGGCCTATACATCCTTGGGAACCAAGTTCCCTTTAGAGTTGGTCTTAT  
TGCCTTGAAGCTGGGCATGATGCCTTTATGGACCAAGGATGGTCAAAAGCATGTGGTCACATTACTTCAGGTACA  
AGACTGTCATGTCTTAAATATACGTCAAAGGAAAAGTGAATGGAAAATGGCAACCCTGTCTGTAGGAGGAAA  
AACTGTATCACGTTTTTCGTAAAGCTACATCCATATTGGAATTTTACCGGGAAGTTGGATTGCCGCCGAAACAGAC  
AGTTAAATCTTTAATATAACAGATAATGCTGCAATTAAACCAGGCACTCCTCTTTATGCTGCTCACTTTTCGTCC  
TCGACAGTATGTGGATGTCACAGCCAAATCGTAGTGGTAAAGGTTTTCAAGGTGTCATGAAAAGATGGGGATTTA  
AAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTGGTGATATTGGCA  
GAGTCTGGCCTGGAATAAAATGCCTGGAAAATGGGAAACATATACAGGACAGAATATGGACTGAAAGTGTGGA  
GAATAAACACAAAGCACAACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAAATTGCTTAGTAAAGGTCA  
AAGATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCCTACATATTTTCCTGATGGAGATG  
AAGAGGAACTGCCAGAAGATTTGTATGATGAAAACGTGTGTCAGCCCGGTGCGCCTTCTATTACATTTGCCTAAC  
ATCTTTGGACGTGGCAGAACCTTACATATTCTGTGAGCTTCGATGAGCCAGAGTGATATCATAACCACCAGAAAT  
CATACTCTCCTTTCTTAGTCACAACAAAATCACACATGTCATCTTTGTCAAGGGCATAAATATATCATTACATACC  
CCCATTAATTTTGTAGAAAAATTACCACATTAAATATATGAGTTAAGTAGATTGGATTGCTGAAATGGTGT  
TGGGCATATTAGCAAAATATTCTTAATTTGTGGACTCGATTCTTTTTTACTACATATTTCCCAAGTTATCTTAAG  
ATGCTCTGTAATTTAACTTTTATTAAGTTTTGTCAATCTTTGTGAATAGTGGTTGTGGAACAGTAGAAAACCAT  
ATGGGGACTATAGTGAACCTATTTGGGTAAAGAAACCATTTGCTAAAAATGGAGAAAGTAAATAGATTTTATTT  
AAATTACAGAAACATGTTAAAGGCCGGACAAAGGAAAGACAATAAAATCATAAATTATC

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**FIGURE 1255**

ATGATGACAGTAGGAGTTGAGTGGAGGAGATGGCAAGTTGAGCGGAGGAGGTGGCAGTGGGGCCCCAGATCAGGT  
GCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCTGAGGGTCCTAGCTGCCTTCCTTAGGCGT  
GGTGAGGCTGCTGGGTCTCCTGTTCAAATCCACCTAGAAGCCATGCCCAAGAAGAGCCAACAGACTTCCTGAGC  
CGCCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCCCTCTGAGTCCCCTCGGCCTTGGTCTCTG  
CCCATCCGCCCCTGCTATGGAGCCCCTGGCCCTGGCCATGGAGCTGAGCCGGCGCGTGGCCGAGCTGGGGGACAC  
CCGGGCCGGACTCAGCGTAGAGCACGCGCACAGCCTCACGCCCTGGATCCAGGCCACGGGGGCCGGCTCCACTG  
CGTTCGTTCTGTGGTGAAGCCTTGCTGTATGCCCGACTGCAGCCATGAGTGTGGACGCTATGCCTGGCGTCAAT  
GACTGGGTACGCTAA

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## FIGURE 1256A

GAGGTCAGACCGGTTGCTTTCCCGGGAGTTCGGCGTTTGCTGGGGCTGCAGCAGCTGAAGTGTAGTGTTCCTTG  
GGACTGGCGGTCTGCACTTCTCTCCCGGGTTCCATCTCCCCCGCCCGGTGGTGAGGCCCTCGAGGAGGGCTCGG  
ACGGGTGTAGCGATCCGCGCTAGAGGAAGACGAGGCCCGGAACGCATGTCCCCAGGGCAGGTTAGGGGGCTGG  
AGGGGTCAAATCCCGGGGTACTTGTGGAGACTCTTTAGCGTGGCTTCTTCTCTGTGAGACCCGAGAGCTTT  
CCCAGTTCTCTCCAGGACCACCGGGGTTCCCTGAAGATCGGGACTTTTCTGCGCCCTCCACCAACAGCCCATC  
TCCTGTCTATGAAGAAAGACCCCTTCGTAGAAACAACCTCCCCGCTGCTGACGCGTTTTCCCGTCCCGTCCCCGAA  
GTAGTCTACTATGACCTCGTTGTGAGCCTCTGAACGATTTTGACACTTTCCCAGGCCCTAGGGTATTATATCCTA  
ACCTTACTAAAGACCACAGAGGTGCTTGCCATTATGGGAAATCAGCTTGCTGGCATTGCTCCCTCCCAGATCCTT  
TCTGTAGAGAGTTATTTTTAGATATTCATGACTTTGAATATGATAAAAGCCTGGGGAGTACTCGGTTTTTTAA  
GTTGCTCGAGCCAGCACCGAGAAGGCCTGGTTCGTTGTGAAGGTTTTTGCAATTCAGGATCCCACATTGCCTTTA  
ACCAGCTATAAACAAGAGCTGGAGGAACTGAAATCAGGCTTAATTCTGCACAGAATTGTCTACCTTTCCAGAAA  
GCATCAGAAAAAGCATCTGAGAAAGCAGCTATGCTCTTTAGGCAGTATGTGCGAGACAACTCTATGATCGCATC  
AGTACCCGTCCTTCTTGAATAACATTGAGAAGCGCTGGATTGCTTTCCAGATCCTGACAGCTGTGGACCAAGCA  
CACAAATCTGGAGTTCGTTCATGGGGACATCAAGACTGAGAATGTGATGGTCACCAGTTGGAATTGGGTCTTCTA  
ACTGATTTTGCCAGTTTTTAAGCCCACTTATCTTCCAGAAGACAACCCGGCAGATTTCAATTATTTCTTTGACACA  
TCACGGAGGAGAACTTGCTATATTGCTCCTGAACGTTTTGTTGATGGTGGGATGTTTGCCACTGAGTTAGAAAT  
ATGAGAGATCCTTCAACTCCGCTGTAGACTTAAATAGCAATCAGAGAACAAGAGGAGAGTTGAAGAGAGCAATG  
GACATCTTTTTCAGCAGGTTGTGTGATAGCTGAGCTTTTTACAGAAGGTGTACCATTATTTGATCTCTCTCAACT  
TTGGCTTATAGAAATGGACATTTTTTCCCTGAACAAGTGCTAAATAAAATGAAGATCAGATATCAGAGAAATG  
GTAACCTCAGATGATTCACCGTGAGCCAGATAAACGTTTAGAGGCAGAAGATTACTTAAACAGCAGCGTGGCAAT  
GCCCTTCTGAAATATTTTACACTTTTCTTCAGCCCTACATGGCCAGTTTGCCAAGGAAACGTTTCTTTCTGCA  
GATGAGCGTATTCTGGTTATACGGAAGGATTTGGGCAACATTATTACAATCTCTGTGGACATGATCTGCCAGAA  
AAAGCCGAAGGAGAGCCTAAGGAAAAATGGGCTGGTTATCTTGGTATCTGTTATAACATCCTGCCTACAGACCCCT  
AAATACTGTGATTCCAAAGTAGCTGCTTTGGAAGTATTCTTCATTTGGCTCCAAGATTAAGTGTGAAATCCCT  
TTGGATCGTATTACTCCATATCTTTTGCACTTCAGCAATGACTCTGTTCTAGGGTGAGGGCTGAAGCCCTTGAGG  
ACGTTGACCAAAGTCTTGCTCTCGTCAAAGAGGTTCCCTCGTAATGATATCAATATTTATCCGGAATACATCTG  
CCAGGCATAGCCCACTTAGCCCAAGATGATGCTACTATCGTTAGACTAGCCTATGCTGAAAACATAGCTCTGCTG  
GCAGAAACAGCTCTGAGATTCTTGAATTAGTACAGTTAAAAAATCTTAATATGGAATGACCCCAATAATGAA  
GAAATAGATGAGGTTACACATCCAAATGGAATATTGACACAGAGCTCCAAGCCTTACATGAAATGGTCCAGCAG  
AAAGTTGTTACTTTGCTAAGTGACCCGAAAATATTGTAACAAACCTTGATGGAATGGAATAACACGGCTG  
TGTGATTCTTTGGACGTCAGAAAGCCAACGATGTTTTGTTGTCCCACATGATTACTTTCTTAAATGATAAGAA  
GATTGGCATCTACGTGGAGCATTTTTGATAGTATAGTTGGTGTGCTGCTATGTTGGCTGGCAAAGCTCCTCA  
ATTCTCAAGCCTCTGCTGCAACAAGTCTTAGTGATGCTGAGGAATTTGTCATTGTGAAAGCTCTTTATGCCCTT  
ACTTGATGTGCCAGTTAGGACTGCTACAAAAACCCCATGTTTACGAATTTGCCAGTGATATTGCCCCCTTCTG  
TGTCATCCCAATTTATGGATACGTTATGGTGCCGTGGGATTTATCACAGTGGTAGCTCGTCAAATAAGTACAGCT  
GATGTCTACTGTAACTGATGCCTTATCTTGACCCATATATTACCCAACCAATAATACAGATTGAAAGAAAACCT  
GTTCTGCTCAGTGTTTTAAAGGAACCAAGTAAGTCTGTTCTATATTTGATTATGCTTTGAGGCTAAAGATATTACT  
AGCTTGTTTCAGACATCTTCATGCGTCAGAAGAAACGAAATGGTTCTCTTCCGACTGCCCTCCGCCAGAGGAT  
CCTGCCATAGCACAGCTTCTGAAGAAGTTGCTCTCACAGGGAATGACAGAGGAAGAGGAAGACAACTTCTGGCA  
CTGAAAGACTTCATGATGAAATCTAATAAGCAAAGGCCAATATAGTGGACCAGAGCCATCTTCATGATAGTAGT  
CAGAAAGGTGTAATTGACTTGGCAGCTTTAGGCATAACTGGGAGACAAGTTGATCTTGTTAAAAACCAACAAGAA  
CCAGATGACAAACGGGCCAGAAAACATGTAAAAACAAGACTCAAATGTAAATGAAGAATGGAAGGAGCATGTTGGG  
TCACTGGACCCACCAACATGCCACAGGCCCTACCTAAAGGGAGTGATCAGGAGGTGATTCAGACTGGGAAACCT  
CCTCGTTCCGAGTCTCTGCTGGCATTGTGTCCCTTTGTCAACTTCTTACAGGTTCCAGAAGTGACAACCTGTC  
CAAAATAAAAAACCAAGTAATACCGGTTTTAAGTAGTACAATCTTACCATCCACCTATCAGATTGCAATTACAAC  
TGTAAGTGAACCTCAGCAACTCATCCAGCAAAAGCGGGAGCAGTGCAATGCTGAGAGAATAGCTAAGCAGATG  
ATGGAAGTGTGAAATGGGAGAGTAACCAACCACCTGGATGGCGTCTTAAAGGGCTGTTAGTTGCCCATCTT  
CATGAGCATAAATCTGCTGTGAATCGAATTAGAGTCTCTGATGAACACTCACTTTTTGCAACATGTTCAATGAT

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**FIGURE 1256B**

GGCACAGTGAAAATCTGGAACAGTCAAAAGATGGAGGGGAAGACCACCACTACCAGATCTATTCTTACATACAGC  
CGAATTGGAGGACGAGTCAAGACGCTCACATTCTGCCAAGGCTCCCACTATTTAGCCATAGCATCTGATAATGGT  
GCTGTCCAGCTTCTTGGAATTGAGGCTTCTAAGCTGCCCAAGTCTCCTAAAATCCATCCTCTACAAAGCAGAATT  
CTAGATCAGAAAGGAGGACGGTTGTGTTGTGGATATGCATCACTTCAACTCTGGAGCACAGTCTGTTCTTGCCTAT  
GCCACTGTGAATGGCTCTCTGGTTGGCTGGGACCTTAGGTCTTCAAGCAATGCGTGGACTTTAAAGCATGATTTA  
AAGTCGGGCCCTCATCACTTCCTTTGCTGTGGACATCCACCAATGCTGGCTCTGCATTGGTACAAGCAGTGGTACC  
ATGGCTTGTGGGACATGAGGTTCCAGTTGCCAATTCAAGTCACTGTCATCCTTCCAGGGCTCGAATCAGACGC  
CTCTCAATGCACCCTCTGTATCAGTCCTGGGTGATTGCAGCTGTTCAAGGCAACAACGAAGTGTCCATGTGGGAC  
ATGGAGACTGGTGACAGAAGATTTACTCTCTGGGCCAGCAGTGCACCACCACTTTCTGAATTACAGCCTTCTCCT  
CATAGCGTCCATGGTATCTACTGTAGTCCTGCAGATGGAATCCTATCCTACTAACAGCTGGCTCAGATATGAAA  
ATAAGGTTTTGGGACTTGGCTTACCCAGAAAGGTCTATGTTGTTGCAGGAAGTACTAGTTCCCCATCTGTGTCC  
TACTACAGGAAAATAATTGAAGGCACTGAAGTTGTCCAGGAAATTCAGAAATAAGCAGAAAGTAGGACCAAGTGAT  
GACACCCCTCGAAGGGGCCAGAGTCCCTGCCCCTGGGACATCATGACATCATCACTGATGTCGCCACATTCCAG  
ACCACACAGGGCTTCATCGTAACTGCTTCTAGAGATGGGATTGTGAAGGTGTGGAAATAAACCTACTGATTTGT  
ATAAATTTTAATAGTTATAAATATAATACTATAACTCGAGAAAAGGCATTTCTAGAGAACAGATTCATTTGCTTA  
ATTTTCAAATTTATGTCTCCATATTACTGTTTCATGACTGACTGACTAAATGACACCCAAAATGGTTAAGATGTA  
CTTGACTAGTTTACTTATGCATCTCTTTGCAAGAATCAGCCAGCCAACAATGTCTGGGATTTTATTGTATATGT  
TATAGAGGTGAGAAATGTAATATGAAATGAATATGTTTATTTGTATTGAAAAAGATGGTTGAAAAAGATGGT  
TGTAAGCTATTATAGTATAAACACATTTTGTCTATTAATAATGCTATTCAAAGCAGTTAAACTGT



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**FIGURE 1257**

MGNQLAGIAPSQILSVESYFSDIHDFEYDKSLGSTRFFKVARAKHREGLVVVKVFAIQDPTLPLTSYKQEELEELK  
IRLNSAQNCLPFFQKASEKASEKAAMLFRQYVRDNLDRISTRFFLNNEIKRWIAFQILTAVDQAHKSGVRHGDIK  
TENVMVTSWNWVLLTDFASFKPTYLPEDNPADFNFFDTSRRRTCYIAPERFVDGGMFATELEYMRDPSTPLVDL  
NSNQRTRGELKRAMDIFSAGCVIAELFTEGVPLFDLSQLLAYRNGHFFPEQVLNKIEDHSIRELVTQMIHREPK  
RLEAEDYLKQQRGNAPFPIFYTFLOPYMAQFAKETFLSADERILVIRKDLGNIHNLCGHDLPEKAEGEPEKENG  
VILVSVITSCLQTLKYCDSKLALELILHLAPRLSVEILLDRITPYLLHFSNDSVPRVRAEALRTLTKVLALVKE  
VPRNDINIYPEYILPGIAHLAQDDATIVRLAYAENIALLAETALRFLELVQLKNLNMENDPNNEEIDEVTHPNGN  
YDTELQALHEMVQQKVVTLLSDPENIVKQTLMEGITRLCVFFGRQKANDVLLSHMITFLNDKNDWHLRGAFFDS  
IVGVAAYVGWQSSSILKPLLQQGLSDAEFVIVKALYALTCMCQLGGLLQKPHVYEFASDIAPFLCHPNLWIRYGA  
VGFITVVARQISTADVCKLMPYLDPIITQPIIQIERKLVLVSVLKEPVSRISFDYALRSKDITSLFRHLHMRQK  
KRNGSLPDCPPPEDPAIAQLKKLLSQGMTEEEEDKLLALKDFMMKSNKAKANIVDQSHLHDSSQKGVIDLALG  
ITGRQVDLVKTKQEPDDKRARKHVQDSNVNEEWKSMFGSLDPPNMPQALPKGSDQEVITGKPPRSESSAGICV  
PLSTSSQVPEVTTVQNKKPVIPVLSSTILPSTYQIRITTCKTELQQLIQKREQCNAERIAKQMMENAWESEKPP  
PPGWRPKGLLVLAHLHEHKSAVNRIRVSDEHSLFATCSNDGTVKIWNSSQKMEGKTTTTRSILTYSRIGGRVKTLTF  
CQGSHYLAIASDNGAVQLLGIEASKLPKSPKIHPLOSRILDQKEDGCVVDMHFNNSGAQSVLAYATVNGSLVGWD  
LRSSNAWTLKHDLKSLITSFAVDIHQCWLCIGTSSGTMACWDMRFQLPISSHCHPSRARIRRLSMHPLYQSWV  
IAAVQGNNEVSMWDMETGDRRFTLWASSAPPLSELQSPHSHVGIYCSPADGNPILLTAGSDMKIRFWDLAYPER  
SYVVAGSTSSPSVSYRKIEGTEVVQEIQNKQKVGPSDDTPRRGPESLPVGHHDIIITDVATFQTTQGFIVTASR  
DGIVKVWK

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**FIGURE 1258A**

GGCCCTGCCTTCTCCATCAGACACCTGGGAATCACAGCTGGGGCCCCCTGCTTTGGCCGTTTGTCTGCTGGAATC  
TGATGGAGGAAAGACGCTCTGAGAGAGTAATTAGACGCAGACAGAGATCTCTCTCCATAGTCAGAGGAGCCTAGC  
AGGGGCTGAAGGAACTGCCTGAGGATGACAAAGAAGGGGATCCATGAACAAGGAGGTGCTAACAGGTTTCTTGCT  
GATCTTGGCACTGACCGAAGCGCTGGCATTGTCATCCAGGAACCATCTCCCAGGGAATCTCTTCAGGTCTCTCC  
TTCAGGCACTCCCCCGGGAACCATGGTGACAGCACCCACAGCTCTACCAGACATACTTCTGTGGTGATGCTGAC  
CCCCAATCCCGATGGACCCCCCTCACAGGCTGCAGCTCCCATGGCAACACCGACACCCCGTGCAGAGGGGCACCC  
TCCTACGCACACCATCTCCACCATCGCTGCGACAGTAACCGCCCCCATTCTGAAAGCTCCCTGTCCACAGGGCC  
CGCTCCAGCAGCCATGGCAACCATCCTCCAAGCCAGAGGGCGCCCTCGAGGGCAGGCTGCCCCCACCATCCT  
GCTGACAAAGCCACCGGGGGCCACCAGCCGCCCCACCACAGCGCCCCCGCACTACCACACGCAGGCCCCCAG  
GCCCCCAGGCTCTTCCCGAAAAGGGGCTGGTAATTCATCACGCCCTGTCCCGCCTGCACCTGGTGGCCACTCCAG  
GAGTAAAGAAGGACAGCGAGGACGAAATCCAAGCTCCACACCTCTGGGGCAGAAGCGGCCCTGGGGAAAATCTT  
TCAGATCTACAAGGGCAACTTCACAGGGTCTGTGGAACCGGAGCCCTCTACCCTCACCCCGAGGACCCCACTCTG  
GGGCTACTCTCTTACCACAGCCCCAGACAGTGCGTGCAGCCACAGTGCACAGCAATACCTCATGGGCACCCAC  
CACCACCTCCCTGGGGCCTGCAAGGACAAGCCAGGCCTTCGCAGAGCAGCCCAGGGGGGTGGTTCTACCTTCAC  
CAGCCAAGGAGGGACACCAGATGCCACAGCAGCCTCAGGTGCCCTGTGAGTCCACAAGCTGCCCCAGTGCCTTC  
TCAGCGCCCCCACCACGGTGACCCACAGGATGGCCCCAGCCATAGTGACTCTTGGCTTACTGTTACCCCTGGCAC  
CAGCAGACCTCTGTCTACCAGCTCTGGGGTCTTACGGCTGCCACGGGGCCACCCAGCTGCCTTCGATACCAG  
TGTCTCAGCCCCCTTCCAGGGGATTCTCAGGGAGCATCCACAACCCACAAGCTCCAACCCATCCCTCCAGGGT  
CTCAGAAAGCACTATTTCTGGAGCCAAGGAGGAGACTGTGGCCACCTCACCATGACCGACCGGGTGGCCAGTCC  
TCTCTCCACAGTGGTATCCACAGCCACAGGCAATTTCTCAACCGCTGGTCCCCGCCGGGACCTGGAAGCCTGG  
GACAGCAGGGAACATCTCCCATGTGGCCGAGGGGGACAAACCGCAGCACAGAGCCACCATCTGCCTGAGCAAGAT  
GGATATCGCCTGGGTGATCCTGGCCATCAGCGTGCCCATCTCCTCCTGCTCTGTCTGCTGACGGTGTGCTGCAT  
GAAGAGGAAGAAGAAGACCGCCAACCCGGAGAACAACCTGAGCTACTGGAACAACACCATCACCATGGACTACTT  
CAACAGGCATGCTGTGGAGCTGCCCAGGGAGATCCAGTCCCTTGAAACCTCTGAGGACCAGCTCTCAGAGCCCCG  
CTCCCCAGCCAATGGCGACTATAGAGACACTGGGATGGTCTTGTAAACCCCTTCTGTCAAGAAACACTGTTTGT  
GGGAAACGATCAAGTATCTGAGATCTAACTACAGCAGGCATCACTTTGCCATTCCGTATTTTCTGCTCTAAAT  
ATAAATATACAAATACATATATTATAAATATAACCTTGTGTAAACCTGACTTAATGAGAAACATTTTCAGCTTT  
TTTTCTATGAATTGTCAACATCTTTTTTACAAGTGTGGTTTAAAAAAAAAAAAAACTTTACAGAATGATCTGTG  
GCTTTATAAAATAAAGGTATTTCTAAGCAAAGCAGTTGCATTGATTGCTTCTCTTAATAACTATTCTTGAGCAC  
TGGGGATCCCAGGAACCTGGTCAGGTGAGGTAAGAGACTGACCTCCTGTAGAAGCTGAATGTTACAGTGCAAGC  
GCACGATTCTTTGAGTGATTCTTAAAGCTCTGGTTCTCTTGATTGGTGTGACCCATTCTCCCTCTCATA  
CGCACACCTGTAAAGGGAACCTGGACCGCTCAGGGGAAGACGGCAGACTCATGCACAGAGAAGGAAAAGGGAACA  
TCTCATACCTCTGAGGATGAGTACCCTGGAGCCTTATGACGGCACCATTTGGATGTCATGTTTAAATCCATCCAA  
GTTGTGGATGGCAGGCAGGAGCATGGAGCCCTCAGGAATCCATGGAGGACATCAAGGCATCCCCAAGGCCATATTC  
CCCTAACATTACTTCCACTGCTAACAAACAGGACTGCCTTTCCTGGTGGGAAAATGCTCCCTTTATGCCCATTC  
TGTATCCCTCCAACACCCACATCTGCATTAAACACCGTGCCTTTCTCTTGGAGAGGGTTTAGATGCAGATCCC  
GGCCCTGGAGCTTTAAATGCTTGCCCTTCCTTCTTCAAGGATCAAATGTTTATTGGGGTTTACGCTTTGTTTTCT  
CAAAAGGCCATGGTATCGTGCCCTGAGGAACATGTTTATCTAAGAAGCTTTGAGGTAGTAGAGCGATAATTTTT  
GAAACCTTCTCCTGCAATCTTTAAAAAGAAAAAAGATTGCCCAACAAATCATTGAGGAGAAGACATCATT  
ATACTCCTACTTGGCACTGCAAACCTGCTGCGAGCACCAGCCGGTGGACTTGCCATCCAGCTCTCAGCTTCCACT  
GCTCCCTTGTTCGGCGCCGGCTGGCTGCCTCCCCGTGCTGTGTCCAGCACGGCCAACAACGTCAGACCCTCAGA  
GACGCCAAGGGGCTTCCAGAGGTGGCGCTTCTCTATTTTTCTGATTGTGGCTGAGAGAGATGATTACTGCT  
TTGACACTTCTTTCTCTAAAAGAAAAATAGTTTGTATAGTATTTTTGAATATAGATGCTCTTATAGTCAGATTG  
GGAATTGAACCTGAATATTGGGTCATATGTTTGTGTGTGTGCTGTATCATGACTTTTTTCTTTCTGCATT  
TTCTTAAAAAAGATGGCCTTCAAAAGTGTGTTCTCAATGTTGTATGAACCTCCTTCACATGAGTTC  
GGTGTGTGCTCTCTTCAAAGACTCTTCAACCCACAAGAAGCAACTAAATGTTTCTCTAAGTTTAAATTTCTAG  
CGTGTGTGTGCTTACCTTTTTAACCTTACCATAATATTTCTGTTAACTGTTACATTTAATATACCAATGTGTGT  
AAGTATACAGAGAAAAATCTGTTTGTAAAGTAAATTTATATATAATATATGTAATCAAAGATACATATGTTATA

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**FIGURE 1258B**

TATACATATGTGGATGTATGACTTATTTTCCTTATCCACAGATTCAGCTACCATGTATATATAAATAAACTTA  
TTTATTAGCCAGAG

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**FIGURE 1259**

MKRSLQALYCQLLSFLLILALTEALAFATQEPSPRESLQVLPSGTPPGTMVTAPHSSSTRHTSVVMLTPNPDGPPS  
QAAAPMATPTPRAEGHPPTHITISTIAATVTAPHSESSLSTGPAPAAMATTSSKPEGRPRGQAAPTILLTKPPGAT  
SRPTTAPPRTTTRRPPRPPGSSSRKGAGNSSRPVPPAPGGHSRSKEGQRGRNPSSTPLGQKRPLGKIFQIYKGNFT  
GSVEPEPSTLTPRTPLWGYSSSPQPQTVAATTVPNTSWAPTTTSLGPAKDKPGLRRAAQGGGSTFTSQGGTPDA  
TAASGAPVSPQAAPVPSQRPHHGDPQDGP SHSDSWLTVTPGTSRPLSTSSGVFTAATGPTPAAFDTSVSAPSQGI  
PQGASTTPQAPTHPSRVSESTISGAKEETVATLTMTDRVPSPLSTVVSTATGNFLNRLVPAGTWKPGTAGNISHV  
AEGDKPQHRATICLSKMDIAWVILAISVPISSCSVLLTVCCMKRKKKTANPENNL SYWNNTITMDYFNRAVELP  
REIQSLETSEDQLSEPRSPANGDYRDTGMVLVNPFCQETLFGNDQVSEI

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**FIGURE 1260**

ATGGCGGCGGCATTACGGGTGGCGGCGGTCTGGGCAAGGCTCAGCGTTCTGGCGAGCGGTCTCCGCGCCGCGGT  
CGCAGCCTTTGCAGCCAGGCCACCTCTGTAAACGAACGCATCGAAAACAAGCGCCGACCGCGCTGCTGGGAGGG  
GGCCAACGCCGTATTGACGCGCAGCACAAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATCAGTCTCTTGCTGGAC  
CCTGGCAGCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTGCAGATTTTGAATGGCTGCTGACAAGAAT  
AAGTTTCTGGAGACAGCGTGGTCACTGGACGAGGCCGAATCAATGGAAGATTGGTTTATGTCTTCAGTCAGGAT  
TTTACAGTTTTTTGGAGGCAGTCTGTCAAGGAGCACATGCCCCAAAGATCTGAAAATCATGGACCAGGCCATAACG  
GTGGGGGCTCCAGTGATTGGGCTGAATGACTCTGGGGGAGCACGGATCCAAGAAGGAGTGGAGTCTTTGGCTGGC  
TATGCAGACATCTTTCTGAGGAATGTTACGGCATCCGGAGTCATCCCTCAGATTTCTGTATCATGGGCCCATGT  
GCTGGTGGGGCCGTCTACTCCCCAGCCCTAACAGACTTCACGTTTCATGGTAAAGGACACCTCCTACCTGTTTCATC  
ACTGGCCCTGATGTTGTGAAGTCTGTCACCAATGAGGATGTTACCCAGGAGGAGCTCGGTGGTGCCAAGACCCAC  
ACCACCATGTCAGGTGTGGCCACAGAGCTTTTGAATATGATGTTGATGCCTTGTGTAATCTCCGGGATTTCTTC  
AACTACCTGCCCTGAGCAGTCAGGACCCGGCTTCCGTCCGTGAGTGCCACGATCCCAGTGACCGTCTGGTTCTC  
GAGCTTGACACAATTGTCCCTTTGGAATCAACCAAGCCTACAACATGGTGGACATCATACACTCTGTTGTTGAT  
GAGCGTGAATTTTTTGAGATCATGCCAATTATGCCAAGAACATCATTGTTGGTTTTGCAAGAATGAATGGGAGG  
ACTGTTGGAATTGTTGGCAACCAACCTAAGGTGGCCTCAGGATGCTTGATATTAAATTCATCTGTGAAAGGGCT  
CGTTTTGTGATCTGTGATGCATTCAATATTCCACTCATCACTTTTGTGATGTCCCTGGCTTTCTACCTGGC  
ACAGCACAGGAATACGGGGGCATCATCCGGCATGGTGCCAAGCTTCTCTACGCATTTGCTGAGGCAACTGTACCC  
AAAGTCACAGTCATCACCAGGAAGGCCTATGGAGGTGCCTATGATGTCATGAGCTCTAAGCACCTTTGTGGTGAT  
ACCAACTATGCCTGGCCACCGCAGAGATTGCAGTCATGGGAGCAAAGGCGCTGTGGAGATCATCTTCAAAGGG  
CATGAGAATGTGGAAGCTGCTCAGGCAGAGTACATCGAGAAGTTTGCCAACCCCTTTCCCTGCAGCAGTGCGAGGG  
TTTGTGGATGACATCATCAACCTTCTTCCACACGTGCCCCGAATCTGCTGTGACCTGGATGTCTTGCCAGCAAG  
AAGGTACAACGTCCTTGGAGAAAACATGCAATATTCCATTGTAA

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**FIGURE 1261**

MAAALRVAAVGARLSVLASGLRAAVRSLCSQATSVNERIENKRRTALLGGGQRRIDAQHKGKLTARERISLLLD  
PGSFVESDMFVEHRCADFGMAADKNKFPGDSVVTGRGRINGRLVYVFSQDFTVFGGSLSGAHAQKICKIMDQAIT  
VGAPVIGLNDSSGARIQEGVESLAGYADIFLRNVTASGVIPQISLIMGPCAGGAVYSPALTDFTFMVKDTSYLF  
TGPDVVKSVTNEDVTQEELGGAKTHTTMSGVAHRAFENDVDALCNLRDFFNYLPLSSQDPASVRECHDPSDRLVP  
ELDTIVPLESTKAYNMVDIIHSVVDEREFFEIMPNYAKNIIVGFARMNGRTVGIVGNQPKVASGCLDINSSVKGA  
RFVRFCDAFNIPLITFVDVPGFLPGTAQEYGGIIRHGAKLLYAFAEATVPKVTVITRKAYGGAYDMSSKHLCD  
TNYAWPTAEIAVMGAKGAVEIIFKGHENVEAAQAEYIEKFANPFPAAVRGFVDDIIQPSSTRARICCDLDVLASK  
KVQRPWRKHANIPL

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**FIGURE 1262**

GAGGCTATGGCGCTCAACAAGAATCACTCGGAGGGCGGGCGGAGTGATCGTCAATAACACCGAGAGCATCCTAATG  
TCCTATGATCACGTGGAACCTCACATTCAATGACATGAAGAACGTGCCAGAAGCCTTCAAAGGGACCAAGAAAGGC  
ACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGCAAGGATGCCATGCAGTCCTTCATGATGCCA  
TTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCCGTATTGGTGCAAACCTACATCAAGGGAACAGTGAAGGCG  
GAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCCTACAAGTTGACTTTCACGGCAGGGGGCGCCATTGAGTTCGGA  
CAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTCCCCAGTGGAGCCTATGGCTACTCTTACATG  
CCCAGCGGGGCTATGTCTATCCCCGCCAGTCGCCAATGGAATGTACCCCTGCCCTCCTGGCTACCCCTATCCA  
CCGCCCCACCTGAGTTCTATCCAGGACCCCCATGATGGACGGGGCCATGGGATACGTGCAGCCCCACCCAGCG  
CCCTACCCTGGGCCCATGGAACCTCCGGTCAGCGGCCCGATGTCCCCTCCACTCCTGCAGCCGAAGCCAAGGCC  
GCAGAAGCAGCCGCCAGCGCCTATTACAACCCAGGCAATCCTCACAACGTCTACATGCCCACGAGCCAGCCGCCG  
CCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAGTAGGCCCTCCTGCCCTCCCTGCCTCCACCCCTCATCT  
CTCTACCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAGGGGAGGGGGCGCCTTGTCTCCCTCCAGGT  
CTGATCATAAACAATTACCAGGAAGTACGATTGTGGGACATTAGGGCCCCCGCCTCGGGAGAGGTGCCGCCAG  
CTTCCCATGCCAGCCCGGAGCCACAGTGTGCCCAGCGTACCTCCCTCACCCTCTGGGGCTCTTCTGGGAGCAC  
GGAGCATCCCTGTTCTGTTTCACTCTCAGCTTCTCCCTCGAAGGGACTCTCTGGCCACCTCCTCCACCCGAG  
TCCAGTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATGAGCCACTTCAGACCAGCCAGGTGTCTTCCC  
GGGCCCTGCCAGACCTGTCTACATTCCCTCTGCTGGTCTGTGCTGGTCTCAGAAGGCCACCGCGCCCGCATTC  
ACTCAGCCAGGGTCCAGCTGCAGCCCCGCCACCCTTCCTTCCCTTCCCTGTCTGGGTCTGTGTTGTTGCCACCC  
TGTGTGACTTTTGAAGCTGTAAATGAGCTTCCAGGGCTTGGGTGGCGTCGGGGCAGGGCCGCCGAGGCTGGGAG  
GAAGCCCTTCTGCCTTTTGTGTTTCTGGAATTTGCTTTCCTCACCTCTCACTTCTTCTAGAGGAGCTT  
CCTGACTGGAACCAGAGAATGCATGTCTGTCCACTTGGTGGCTGCTGGGTGGGGCCGGGAACAAGGGCCCTGAC  
CCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCAGCCTGCTTCTTCCCTTAAGCTTTGTGCCCTGGATGCG  
CTAACATTCACTCTTGTGTTGTCCTGGACTGGCCATGAAGTGAGGAGATGGTTATTAAAGAGAATTCCCTATTT  
ATTTGACAAAAAATCCAGTTAATATATTAATGTGAAATAAACCTGTTTGGCCCTCG

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**FIGURE 1263**

AGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCCCGGCCCCAGACCGGCCTGTCTTCCTGGGCCCTGAGCCTG  
AGGACCTGGAGGACCTGTACAGCCGCTACAAGAAGCTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAAT  
ACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAATTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCA  
TCCCGCTGGTTCATCGGACAATTTCTGGAGGCTGTGGATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCA  
ACTATTATGTGCGCATCCTGAGCACCATCGATCGGGAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGC  
ACAGCAATGCACIGGTGGACGTGCTGCCCCCGAAGCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGC  
CAGATGTGATGTACGCGGACATCGGAGGCATGGACATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGC  
TCACGCATTTTCGAGCTCTACAAGCAGATCGGCATCGATCCCCCGGAGGCGTCTCATGTATGGCCACCTGGCT  
GTGGGAAGACCATGTTGGCAAAGGCGGTGGCACATCACACAACAGCTGCATTTCATCCGGGTCGTGGGCTCGGAGT  
TTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATGGTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTG  
CCATCATCTTCATAGACGAGATTGATGCCATCGCCACCAAGAGATTTCATGCTCAGACAGGGCCGACAGGGAGG  
TTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATGGATGGATTGATCAGAATGTCAATGTCAAGGTAATCATGG  
CCACAAACAGAGCAGACACCCTGGATCCGGCCCTGCTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCAC  
TTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCCACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACT  
TGGAAGACTATGTGGCCCGCCAGATAAGATTTTCAGGAGCTGATATTAATCCATCTGTGAGGAGTGGGAATGT  
TGGCTGTCCGTGAAAACCGCTACATTGTCTGGCCAAGGACTTCGAGAAAGCATACAAGACTGTCAATCAAGAAGG  
ACGAGCAGGAGCATGAGTTTACAAGTGACCCTTCCCTTCCCTCCACCACCACTCAGGGGCTGGGGCTTCTCT  
CGCACCCCCAGCACCTCTGTCCCAAACCTCATTCCCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAG  
ATAAGATCGAATCC



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**FIGURE 1264**

CTGGAAGAATTGCGGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCT  
GCGATGGTCCGGAGCGAGGCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCCACG  
GGGCCGCTGCTCAAGTTCAGATTTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATT  
AGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCT  
TTCCTGTCAGTCTTCAAAC TAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGCATG  
CAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGCAAC  
ATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAGCTG  
GAATCTGGTCACCTTCCATCCATGCAACAACCTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCATATG  
GATTC AATCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAAC TCTTTTGCAATTAAGGGATCATTGCA  
AGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGTACAGACCAGATGCTTCTTG  
GCAGGCTCGTTGTACCTCTTGAAAACCTCAATGCAAGATAGTGTTTCAGTGCTGGCATATTTGGAATTCGCA  
CATTCAATGGAGTGCAATAATACTGTATAGCTTTCCCACTCCCAAAAATCACCAGTTAATGTGTGTGTGTGT  
TTTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTCTTAGTCATATTTGAAAAAGTAGAAAATTGAGTTA  
CAATTTGATTTTTTTTCCAAAGATGTCTGTTAAATCTGTTGTGCTTTTATATGAATATTTGTTTTTATAGTTTA  
AAATTGATCCTTTGGGAATCCAGTTGAAGTTCCCAAATACTTTATAAGAGTTTATCAGACATCTCTAATTTGGCC  
ATGTCCAGTTTATACAGTTTACAAAATATAGCAGATGCAAGATTATGGGGGAAATCCTATATTCAGAGTACTCTA  
TAAATTTTTGTGTATGTGTGTATGTGCGTGTGATTACCAGAGAACTACTAAAAAAACCACTGCTTTTTAAATCC  
TATTGTGTAGTTAAAGTGTATGCCTTGACCAATCTAATGAATTGATTAATTAAC TGGGCTTTATACTTAAC TTA  
AATAAAAACTAAGCAGATATGA

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**FIGURE 1265**

GCGGCCGAAGTGGCTGGCTCATTAAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG  
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAGTGTTTCTGAGGTTATAGGCGGGTGTG  
AGGAGTACATGCGGGTTATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAA  
TATATAGACACATAGCATCTTTCCTGTCAGTCTTCAAAGTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATC  
CTTTTGCTTTCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGA  
TGGTTTTCTTCTTGAGCAACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATG  
TACCTGTGTGGTCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAACCTTGTTCAAATTCCTTGACAATGAAA  
TGAAGCTCAATGTGCATATGGATTCAATCCACACCATCGATCATAGCACCACTATCAGCACTGAAAACCTCTT  
TGCATTAAAGGGATCATTGCAAGAGCAGCGTGAATGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGT  
ACAGACCAGATG

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**FIGURE 1266**

GCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG  
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCCACGGGGCCGCTGCTC  
AAGTTCCAGATTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATTAGCCAGCGGTAC  
CCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCTTCTCTGTCAGTC  
TTCAAACTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGCATGCAAGCTCCTAGC  
ATCTGGCAGTGGGGCCAAGACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGG  
TCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAACCTGTTCAAATTCTTGACAATGAAATGAAGCTCAAT  
GTGCATATGGATTCAATCCCACACCATCGATCATAGCACACCT

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**FIGURE 1267**

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA  
AGACCATGTTGGAAGATTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCAG  
CAATATTAAAAAAGGTCATTTCAGTGGTGCACCCACCACAAGGATGACCCTCCTCCTGAAGATGATGAGAACA  
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAAC  
TCATTCTGGCTGCAAACACTACTTAGACATCAAAGGTTTGTCTTGATGTTACATGCAAGACTGTTGCCAATATGATCA  
AGGGGAAAACCTCTGAGGAGATTTCGCAAGACCTTCAATATCAAAAATGACTTTCCTCTTTTTTGTAAAGCAATG  
TCTGCCTAGTTTATTGTCCAGTTAACTTTAGTGACCTTTTAAAAGTTGGCATTGTAAATAAAACAACCTTGCAAAA  
AAGTTTTCTGGAATAGAAATTAACAAAATATTATCTTTATTCATGAGTTGGAACTGGAAAAAGGCTTCTTGAAGT  
AAATGTTCTGAGTGGAGCTACTAGGATGCTTCCAGCCTCCTGCAGTCAAGGAGTACCACTGTATTGATTAGCCT  
GTATGTAGCAGGGCTCCCTTCATTGCAICTGAGGACTTGTTTTCTTTTCTTTATTTTTAATCCTCTAGTTTTA  
AATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTGGGAGAAATGTAAGTGGACAGTTAGCTTT  
TCAATTAAAAAGACACTTAACCCATGTGGGATGTCATCTTTTATAATTAGTGTCCCATGTGGAGAAAATTATT  
CACACTACTTGCATGTAAAGAATAATTTAACTTTTAACATTAAAAATATGTGGTAAAACCCAGAAAGCATCCATCA  
TGAATGCAAGATACTTTCAATAAAAAGTAAGTTATATAGTAGGTAGTTAAGTTTGCTTTTGTGGACTTAAATGTG  
TCTCTTCACTTAAATGGGTTGAATGTGTATATATTTGTTTCAGCTTGAAAAGACTTAGTTTATATCCTAGCTCACT  
GGAGGCTGCTGACATAACCATAACTTCTGTCCCTTCTAATTGTCATTTATATGCCTAACTGGAGCTAGTACTTTA  
ATTCTTAACACAAAATTACTCTGCCATTGTTTCCAGCTTCCCTCCTACAATAGAATGAAGTTTTTTTGATGGCTT  
GAGATGGCTCACAAATTTTGATTTTTTTTTCTTCTTGTGCTCCCTTTTTTCTCCTTGCTTTTCCAGTTAACAT  
CTATATTCACATGTAATCTTGTTTTCTTTCACATTCACTGAGTTGTTTCAGGCTCAGATCATCCCTTGACAGTAG  
TTTGCTTCATCTCACCTTTCATTTGTCCCAAATTCACCTTATTTAATAAAGTCCCATATGTTGTCTCACTTAA

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**FIGURE 1268**

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA  
AGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTTCTCTACCAAATGTGAATGCAG  
CAATATTAAAAAGGTCATTTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTGAAGATGATGAGAACA  
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAAC  
TCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTGCCAATATGATCA  
AGGGGAAAACCTCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTACTGAAGAGGAGGAAGCCCAGG  
TACGCAAAGAGAACCAAGTGGTGTGAAGAGAAGTGAATGTTGTGCCTGACACTGTAACACTGTAAGGATTGTTCC  
AAATACTAGTTGCACTGCTCTGTTTATAATTGTTAATATTAGACAAACAGTAGACAAATGCAGCAGCAAGTCAAT  
TGTATTAGCAGAATATTGTCTCATTGCATGTGTAGTTTGAGCACAGATCCCAAACCTTACGGCCAAGTTTCTTC  
TAGTATGATGGAAAGTTTCTTTTTCTTTGCTCTGAATAAACTGAACTGTGGGTCTCTATAAGTGGCATTITG  
GGCTTTCCCTCTTTTTTGTAAGCAATGTCTGCCTAGTTTATTGTCCAGTTAACTTTAGTGACCTTTTAAAAGTT  
GGCATTGTAAATAAAACAACCTTGCAAAAAAGTTTCTGGAATAGAATTAACAAAATATTATCTTTATTCATGAGT  
TGGAACTGGA AAAAGGCTTCTTGAAGTAAATGTTCTGAGTGGAGCTACTAGGATGTCTTCCAGCCCTCTGCAGT  
CAAGGAGTACCACGTATTGATTAGCCTGTATGTAGCAGGGCTCCCTTCATTGCATCTGAGGACTTGTTTTCTTT  
TTCTTTATTTTTAATCCTCTTAGTTTTAAATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTG  
GGAGAAATGTAAC TGACAGTTAGCTTTTCAATTAAAAAGACACTTAACCCATGTGGGATGTCATCTTTTTATAA  
TTAGTGTTCCCATGTGGAGAAAATTATTCACACTACTTG CATGTAAAGAAATAATTTAACTTTTAACATTAAATA  
TGTGGTAAACCAGAAAGCATCCATCATGAATGCAAGTACTTTCAATAAAAAGTAAGTTATAT

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**FIGURE 1269**

MPSIQLQSFEDGEIFAVDVEIAKQSVTIKTTLEDLGMDDEGDDPVPLPNVNAAVLKKVIQWCTHHKDDPPPPEDDE  
NKEKQTDDIPVWDQEFKVAQGTLFELIRAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFNIKNDFTEEEEE  
QVRKENQWCEEK

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**FIGURE 1270**

GGTGGGTTTATCTCAAGGCCTGAGTAGCCGGTAACAAACGAGGGTTCCCGGGATTGGACCGACGCACCATGCCTC  
TGCGACTTGATATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGTGTGGATCTGCATCCTACAGAGC  
CATGGATGTTGGCAAGTCTTTACAATGGCAGTGTGTGTGTTTGGGAATCATGAAACACAGACACTGGTGAAGACAT  
TTGAAGTATGTGATCTTTCCTGTTTCGAGCTGCAAAGTTTGTGCAAGGAAGAATTGGGTGTGACAGGAGCGGATG  
ACATGCAGATTAGAGTGTTCATTACAATACTCTGGAGAGAGTTTCATATGTTTGAAGCACACTCAGACTACATTC  
GCTGTATTGCTGTTTCATCCACCCAGCCTTTTCATTCTAAGTAGCAGTGATGACATGCTTATTAAGCTCTGGGACT  
GGGATAAAAAATGGTCTTGCTCACAAGTGTGTTGAAGGACACACCCATTATGTTATGCAGATTGTGATCAACCCCA  
AAGATAACAATCAGTTTGCCAGTGCCTCTTTGGACAGGACTATCAAGGTGTGGCAGTTGGGCTCTTCGTCACCAA  
ACTTCACTTTGAAGGACATGAGAAAGGCGTGAAATTGCATTGATTACTACAGTGGTGGGGACAAGCCATACCTCA  
TTTCAGGTGCAGATGACCGTCTTGTTAAATATGGGATTATCAGAATAAAACATGTGTGCAGACACTGGAAGGAC  
ATGCCCCAAATGTGTCTTGTCAGCTTTTCATCTGAGTTGCCAATCATTATCACAGGTTCAGAAGATGGAACAG  
TACGTATTGGCATTCAAGCACCTACCGGCTTGAGAGCACACTGAATTATGGAATGGAGAGGGTATGGTGCCTGG  
CCAGTCTAAGAGGGTCAAACAATGTCGCTTTGGGCTATGATGAAGGGAGCATCATGTTAAGCTTGGTCCGGAGG  
AACCTGCCATGTCCATGGATGCCAATGGAAGATAATTTGGGCCAAGCATTAGAAGTCCAGCAGGCCAACCTAA  
AAGCAATGGGAGATGCTGAAATTAAGATGGTGAAAGATTGCCACTGGCAGTAAAGGATATGGGCAGTTGTGAAA  
TATACCTCAGACTATTACGACACAATCCTAATGGGCGGTTTGTGGTGGTGTGTGGTGATGGGGAGTATATCATCT  
ACACAGCAATGGCATTGAGAAACAAGAGCTTTGGATCTGCTCAGGAGTTTGCATGGGCCACGATTCTTCAGAGT  
ATGCAATAAGAGAGAGCAACAGCATTGTAAAGATATTTAAGAACTTTAAGGAAAAAAATCATTTAAACCAGATT  
TTGGAGCAGAAAGTATCTACGGCGGCTTCTTATTGGGAGTCAGATCTGTAAATGGCTTAGCCTTCTATGACTGGG  
ACAATACAGAATCATACGAAGAATTGAAATTCAGCCCCAACATATTTTCTGGTCTGACTCTGGAGAGCTAGTCT  
GTATTGCTACTGAGGAATCATTTTTTATCCTTAAGTATCTGTGAGAAAAGTCTTGGCTGCACAGGAAAACATG  
AGGGAGTTACTGAAGATGGCATTGAAGATGCCTTTGAGGTTCTTGGTGAGATTCAAGGAAATTGTGAAAACAGGGC  
TTTGGGTAGGCGATTGCTTACATTACACAAGTTCTGTGAACAGATTAAATTATTATGTTGGAGGAGAAATAGTCA  
CCATTGCCCACTTGACAGGACGATGTATCTCCTAGGCTACATTCTTAAGACAACAGGCTTTATCTGGGGGATA  
AAGAATTGAACATCATTAGCTATTCCCTGCTGGTTTCAGTCTGGAATACCAGACAGCTGTATGCGGAGGGACT  
TTAGCATGGCTGATAAGGTCCTTCTTACCATTCCAAAAGAACAGAGGACCAGAGTTGCACACTTTTGGAAAAGC  
AGGGCTTCAAGCAGCAAGCTCTTACAGTATCCACAGATCCTGAGCATCGTTTGGAGCTTGCTCTTCAGCTTGGAG  
AGTTAAAAATGCATACCAGTTAGCAGTGGAGCAGAGTCAGAACAGAAGTGGAAACAACCTGCTGAACCTGCCA  
TTAGTAAATGTCAGTTTGGCCTAGCCCAGGAGTGCTGCATCATGCACAGGATTATGGGGGCTGCTGCTTTTGG  
CCACTGCCTCTGGAATGCTAATATGGTGAACAAGCTAGCAGAGGGTGCGGAGAGAGATGGCAAAAATAATGTGG  
CATTATGAGCTACTTTTTACAGGGCAAGGTTGATGCCTGCCTAGAGCTCTTAATTAGAACTGGACGGCTGCCAG  
AAGCTGCCTTCTTGGCCCGAACTTACTTACCCAGTCAGGTTTCAAGGGTAGTGAAACTCTGGAGAGAGAATCTCT  
CAAAAGTCAATCAGAAAGCAGCAGAATCCCTTGCTGACCCAACAGAGTATGAAAACCTGTTCCCTGGATTAAAAG  
AAGCCTTTGTTGTTGAAGAATGGGTGAAGGAAACACATGCTGATCTGTGGCCAGCCAAACAATACCCACTTGTCA  
CGCCAAATGAAGAGAGAAATGTATGGAAGAGGGGAAAGACTTTCAGCCCTCAAGATCTACAGCTCAACAGGAAC  
TTGATGGGAAACCTGCTTCTCCTACTCCGTTATTGTGGCTCCACACAGCCAACAAGAAGAAAAGAGTTTAC  
TCGAAC TAGAAGTAGATTGGATAATTTGGAATTAGAAGATATTGACACAACAGATATCAATCTGGATGAAGATA  
TTTTGGATGATTGACTGTAATGCTTTCCATTACCTGACTAAACAGATCATTATTATATAGGTATTGATTGCT  
ACCCTGACCACAGTGCTTTGGACTATGAGAACTTCTTAGATTTTTATATGTAATGCTGTGGACCACTGGGAGC  
ACAAATGCCACATCATCTTAAGAAGAGTTTATGTGCAGCATTTAAATCACTGTGTTTTCTTGTAACTAAAACA  
GACATGGGCTTTGATTTTTTTCATACTATTAGACCATATCTATAAAACCTTTTGAATTAAAAAAA

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**FIGURE 1271**

MPLRLDIKRKLTARSDRVKSVDLHPTEPWMLASLYNGSVCVWNHETQTLVKTFEVCDLPVRAAKFVARKNWVVTG  
ADDMQIRVFNNTLERVHMFEAHSDYIRCIAVHPTQPFILTSSDDMLIKLWDWDKKWSCSQVFEGHTHYVMQIVI  
NPKDNNQFASASLDRTIKVWQLGSSSPNFTLEGHEKGVNCIDYYSGGDKPYLISGADDRLVKIWDYQNKTCVQTL  
EGHAQNVSCASFPELP I IITGSEDGTVRIWHSSTYRLESTLNYGMERVWCVASLRGSNNVALGYDEGSIIVKLG  
REEPAMSDANGKIIWAKHSEVQQANLKAMGDAEIKDGERLPLAVKDMGSCEIYPQTIQHNPNGRFVVVCGDGEY  
IIYTAMALRNKSFGSAQEFWAHDSSEYAIRESNSIVKIFKNFKEKKSFKPDFGAESIYGGFLLGVRSVNGLAFY  
DWDNTELIRRIEIQPKHIFWSDSGELVCIATEESFFILKYLSEKVLAAQETHEGVTEGDIEDAFEVLGEIQEIVK  
TGLWVGDCFIYTSSVNRLNYYVGGEIVTIAHLDRMTMYLLGYIPKDNRLYLGDKELNIIISYLLVSVLEYQTAVMR  
RDFSMA DKVLPTIPKEQRTVAHFLEKQGFQQALTVDPEHRFELALQLGELKIAYQLAVEAESEQKWKQLAE  
LAISKQFGLAQECLHHAQDYGGLLLLATASGNANMVNKLAEGERDGKNNVAFMSYFLQGVDALELLIRTGR  
LPEAAFLARTYLPQSQRVVKLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWKETHADLWPAKQYP  
LVTPNEERNVMEEGKDFQPSRSTAQQELDGKPASPTPVIVASHTANKEEKSILLEVDLDNLELEDIDTTDINLD  
EDILDD



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**FIGURE 1272**

ATGCAGCGCTACAATTTTCATTATCTTAAGTACATTGTACATTTCTACAGAACCTGTGATTATTCTCGCATGATA  
AGGATGGTACTTGCATATGGTGAATTACTACTGTGACAGTTTCCGCAGAAATCCTATTTTCAGTGGACCAACATT  
GTGGCATGGCAGCAAATGCCAACATTTGTGGAATAGCAGCAAATCTACAAGAGACCCTGGTTGGTTTTTCGTTT  
TGTTTTCTTTGTTTTTCCCCCTTCTCCTGAATCAGCAGGGATGGAAGGAGGGTAGGGAAGTTATGAATTACTCC  
TTCCAGTAG

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**FIGURE 1273**

MQRYNFHYLKYIVHFYRTCDYSRMIRMVLAYGELLLLTVSAEILFQWTNIVAWQQMPTFCGIAANLQETLVGFSE  
CFLCFFPLLNQQGWKEGREVMNYSFQ

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**FIGURE 1274**

AAAGCTCGCGCGGGGAAGCGGGGCTGTAGCTGGGCAGGGAGAGGGCGGACGAAATCGGTAGCGATCTCGGCTGC  
GGCGCTGCCGCGAGCTGCCCGCGCCGCGGGGCGCGCCCTGACCCCTTCATCTTTGGGCAGGCTCGAGGGCGCGCGCA  
CGGTTGGCGTTCTGGGGCCTCAAACCTCCTGGGCCTTGACCGGGCAGGCCGCGTCTCCCCGGGTGTGAGTCCACCG  
GGACCCGGCGCGCCGCTAAGCGCGGGCGCCACAGAAGCGGGCGCGCCGAAGACGCGCTCCTGGCTCGGCCCCGAC  
AGCCTCGCTTGGCCGCCAGTTCTTCTGCAGCCGAAGCGGTTGTTCTTTTAAAGAATTATTGAAGACGAAGGTTT  
TTTTCTTTTTATTTTTTTAATGGCTTTACAGAATCTTAAATAGAATACAGTTTGACATGACGGCAAAAAATGTTG  
GTTTGACTTCCACAAATGCAGAAGTAAGAGGATTTATAGATCAGAATCTCAGTCCAACAAAAGGCAACATTTTCAT  
TTGTTGCATTTCAGTTTCCAAATACCAACTCACCTACAAAGATTTTACCAAAAACCTTAGGACCAATAAATGTGA  
ATGTTGGACCCCAAATGATTATAAGCACACCACAGAGACTAACCAGTTCAGGAAGTGTCTGATTGGGAGTCCAT  
ATACCCCTGCACCAGCAATGGTTACTCAGACACACATAGCAGAAGCTACTGGCTGGGTCCCTGGTGATAGAAAAC  
GGGCTAGAAAATTTATAGACTCTGATTTTTTCAAGAAAGTAAACGAAGCAAAAAAGGAGATAAAAAATGGGAAAGGCT  
TGAGACACTTTTCAATGAAAGTGTGTGAGAAAGTTCAACGAAAAGGTACAACATCGTACAATGAAGTCGCTGATG  
AGCTGGTGTGAGAGTTTACCAATTCAAATAACCAATTTGGCTGCTGATTCTGGCTTATGATCAGAAGAACAATTAGGC  
GAAGAGTTTATGATGCTTTAAATGTGCTAATGGCAATGAACATAATTTCAAAGGAAAAAAGAAATCAAGTGGGA  
TTGGCCTGCCACCAATTCGCTCAGGAATGTGAGAATCTGGAGATAGAGAAGCAGAGGCGGATAGAGAAGGATAA  
AGCAGAAGCGGGCCAGCTGCAAGAACTTCTCCTACAGCAAATCGCTTTCAAAAACCTGGTACAGAGAAATTCGAC  
AAAATGAGCAGCAAAACCAGGGCCCGCGGCTCTGAAGTCTACCAATTCAGCTGCCATTGATGATGATGATGATGAT  
GCAGAAAACAGTCATAGATTGCAGCATCTCCAGTGACAAGTTTGAAGTATCTTTTCAATTTTGACAACACCTTTG  
AGATCCATGATGACATAGAAGTACTAAAGCGGATGGGAATGTGCTTTGGCCTGGAGTCAGGCAAAATGCTCTCTGG  
AGGATCTGAACTTGGCAATCCCTGGTGCCAAAGGCTTTAGAAGTTTATATCACAGATATCTCCACAGGACCTT  
CTTGTTTAAATCAGGGACTACTTCTGAAGTCTACCAATCAGTTTCAAATTTAGACCTGACCACTGGTGCCACCT  
TACCCAGTCAAGTGTAACCAAGGTTATGCTTGATGCAAGTGGCCTTAGCAACTGGGCAGTTCTCTGGCCC  
CAAACAGTCACCAGTCCAGCAGTGGGCGCTCTCACTGCTCCGAGTCCCGAGGCGAGACCCCTGTTCTGTTCAATG  
ATGAAGATGAGGAAGATGATGAGGAGGATTCTCTCTCCCGAATAAAGACAAGAGAAAGCCTACGTTTCAATAT  
GTGATGCTCATGTGTGTTTGTAGTGTGAGCTCTTGTTTTTGAAGTATTGCTTCAGTCTTTGCTTTGTTTGCAC  
TGTGTGTTTCAAGTAAACTAGAGAAACACAATAAGCAAATCAGATGATGATGATGATGATGATGATGATGATGATGAT  
CATAGTGTGAATGAAAGTCTGGCCACAGAGCAGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT  
TGGGGATAATCCCTGAAGAGTTGGCAGTGTGAGTGAAGTCAATTTATCTTCTGTGAGGTGGGATTTTGTGTTCC  
TCACACCCATGTAATTATTCTTAGAATTGAGATTGCTACACGAGCAGTCTTACGATCGTGTCTTCTGACGTTT  
CTCTTCTTGGCTGGACTGCCCTTTGACAAGGCAGAAATGAACATGAAAAGTCCCAGGAGAGGGGAGCTGTGTAG  
TGAGGGATACAGGGGAGTCTGTGGCTGAGGGGCACAGATTGAAGTCTGAACTAGTTGGAGGTCTAGATGAG  
GTGCTTTACGCATCAGCTGCCCTTAGACAGCTTCTAGAAAGGAGCGAGCGCTACTTCTTAAGTACTTAAGTGACAT  
TTAGATAATTTATAGTAAACTGAAATTATTATTAGCCAATGCATTGGTGCATAGAATTTACTAGGGCTACTTCT  
GGAAGCCAAAATAGAATAGCATTTCATGTGCAATTAATACTTTGCCAGCACTGCCTTTGCCAGCATCCTAAATC  
TGGAGTTTACAAAGAAGGAACTGTATCTTTAGGTTAATCAAAGCTATGCATTTTCATATAGCTTTTTCATTTAA  
AACAAGACAAAGAAACAAATTCCTATGACCAATTGCTTGCTACAGTTCCCTGCAGTAATTGTATGATCTCACC  
CAGTGTGCAATTTGTGAAATGAACCAATGTCACTACTTTTGTCTTAAAGAAAGTCTATTTCAAGAATATGAA  
CAGCAGTG

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FIGURE 1275

ACACACACTCCCCTTGGGCTCCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGCCGGGGTCTCCTGT  
GGGGGGCCAGCCGTATCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCGGGGAGCCGAGAGCCGGGGGCA  
GACGGGCGGGGGTTGGGGCGGAGGGAGCAGCGGCCCCAGCGAGTTTGTGGGGAGAAGTAACCAAGCGGGGGAGG  
GGCTGAGCAGGGAGGGGCTCAGGGCCCCCCCCAGCTATGGACTAACGGCTACTGGGGCCGCTCCTCCAGGC  
GGGGCCCGGGGGGGCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCTGGTGGCGGAGACCC  
CGGTGGGGGTAGCGGGGGTTCCCGGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGATAATGAC  
CATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACAGCCCTAAACTGCCACCGAATGAAGCCTGCTCT  
CTTTAGCGTCTGTGTGAAATCAAGGAGAAAACCGGCCCTCAGCATTCCGAGCTCCCAGGAGGAGCGCGGTGGA  
CCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCCCCGAGAAAGGGGGCGGCTCAGC  
AGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGCGTGTCCCTGACAACTCCATCGAACACTCGGACTATCG  
CAGCAAACTTGGCCAGATCCGTACATATACCACTCGGAAGTGGAGAAGTATGAGCAGGCATGTAATGAGTTAC  
GACCCATGTCATGAACCTGCTGAGGGAGCAGAGCCGACCCAGGCCCCGTGGCCCCAAAGAGATGGAACGCATGGT  
GAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTATGATGATGCT  
GCGTCCCCTTTCTGGATGCCAGACGAAAGCGCCGTAACCTCAGCAGACAGGCCACTGAGGTCTAAATGAGTA  
TTTCTACTCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGGCATCAC  
CGTGTCTCAGGTCTCCAACCGGTTTGGCAACAAGAAGATTGCTATAAGAAAAACATCGGAAAGTTCCAAGAGGA  
GGCAAAACATCTATGCTGTAAGACAGCCGTGTGAGTCAACCCAGGGGGGCCACAGCAGCACCAGCTCCCCGACACC  
CCCTTCCTCTGCAGGCTCTGGCGGCTCTTTCAATATCTCAGGATCTGGAGACATGTTTCTGGGGATGCTGGGCT  
CAACGGAGATTCTATTCTGCTTCCCAGGTGGCATCACTCCGACGCTCGATGGGGCCAGGGGGCTATGGGGATAA  
CCTCGGGGAGGCCAGATGTACAGCCCACGGGAAATGAGGGCAAATGGCAGCTGGCAAGAGGCTGTGACCCCTC  
TTCAGTGACATCCCCAACGGAGGGACCAGGGAGTGTTACTCTGATACCTCCAACCTGATCTTGCCCTCAGGGTC  
ACAGGGGTGGGGGCTCTCAAGGCGACTCTTGAAGAGGACGACAGGCTTCCAGAGGACAAACCCCAATACAGGAG  
AAGCACAGACAGAGAAGGGCCAATGGGGTCACTCCGCTCCCTAATGAGACTGTCTGTGCTGGGGGTGCTAATTAC  
ATGGCAGGAAGAATGGGGCCCCAAGGGGAGTGTGGGGTCTGTCTCTCCCTTTTTTCCAACCTTTTCTCTCTCG  
CTTTCTTTCTTACACAGAAACATGCACATACCCAGAACTATTCTCTCAGACCCCTTTTTCTCTCTGCTTTT  
TCTCTCCCTCTCCACACCTCACACACATACTCCCACTTGCAACTATTCTGTTTCTCTCTGCGTCCCCAC  
TTTCCCTTCCCCACCCCACTTGAGGCTCTGGAATCTGGAGACGCCAGCCCTGCCCAATCAGAGATGCCAAAAT  
GGGGACATGACTTCTGGACAGAGGACATGGGACACGCCCCATGCATCCCCACCCCTGCCCTCCAGACAGCTTA  
CTTACCTCATACGCAGCTCATCTTAAACCAATAGAAATCGCTTGGTGGACGAGAGTGTCTGACTCAGATATCTACC  
TCGGAGGGAGTTTCTGCTACTTTAGGGAATTATGACTGGGCTTTGGGGTTGAACCTTTTTTTTTTTTTTTTT  
AAAGAAAGAAAAAGAAACCCTGGGATCCATCTGTTTTGTTGTTGTTGTTGTTTTGTTGTTGTTGTTGTTGTTG  
GTGGTGGTTCTTAATTTTTAATTTAGTTTGGGGAAGTAGCTTGTTTTTTTTTTTTTAAATAAATATGTTGATTTCT  
TGTCTTTTTTTATTCTTACTTTCCCATATTAGGGGTGATAGCCAAAGGGTCTGGTAAGAGAAAGGGGACA  
AACAGAACTGGTAAGAGGGCCCCCTGGCTCCAGGCCTGTCCATCAGGAAGTAAATTTTACAGGGCACCAAGCTT  
TGCCCCCTAAATCCATTAGGTGTTCTTTGTTTCATGCAGGCAGGTTTCTGCCGATTTGATGTGGAGGCAGTGAA  
GGGCTTGCCCTGCTGGCCTCTCATCCCCCTTCTTCCACAACCCTTGGGCAGGGCTGGACTCAGTAATTTGAGG  
AAATTGAAGATGCCATCTTCCCTGTGAGTGACATGTCTTTAATTTTTTAAAAAACTCTATTTGAAATTTGAGG  
GGGAAGAATGGGAAGGGAGTTATTGCCAAATATGTTAATTATGGGTTGGGGTGCTTGATATGTATCTTCTCAA  
TTTCCGCATAAATGAGGTATCTTTTGTACACCAAAATCAAGGGTAGGGAGAGGGAGGTTGCAAAAAGCC  
AGATGTGGGGGAAAAGTAACATCAACACTGTCCATCTCAGCCCTGAACCCTACCATCTGATCCCCTCAGACAT  
TCTCAGGATTTTACAAGACTGTGAGAGTGGGGAACCCCTCCATTAAAGATCCGGGCAGGACTGGGGACAGGTTG  
GAAATGTGATGGGTTGGGGGTGGGAGGCATGGGCCGGGGCAGTTCTCTCTCACTTGTAACCTTGTGTAGTTT  
CACAGAAAAAAAATGCAGTTTTAAATAAGAAATTTCTTT

[illegible]

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**FIGURE 1277**

MRGANAWAPLCLLLAAATQLSRQQSPERPVFTCGGILTGESGFIGSEGFPGVYPPNSKCTWKITVPEGKVVLNF  
RFIDLESNLCRYDFVDVYNHANGQRIGRFCGTFRPGALVSSGNKMMVQMISDANTAGNGFMAMFSAEPNERG  
DQYCGGLDRPSGSFKTPNWPDRDYPAGVTCVWHIVAPKNQLIELKFEKFDVERDNYCRYDYVAVFNGGEVNDAR  
RIGKYCGDSPAPIVSERNELLIQFLSDLSLTADGFIGHYIFRPKKLPTTTEQPVTTFPVTGLKPTVALCQOK  
CRRTGTLEGNYCSSDFVLAGTVITTTTRDGS LHATVSI INIYKEGNLAIQQAGKNMSARLTVVCKQCPLLRRGLN  
YIIMGQVGEDGRGKIMPNSFIMMF KTKNQKLLDALKNKQC

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**FIGURE 1278**

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGCCACCCGATATATGTTCT  
CTAGGCCTTTTAGAAAACATGGAGCTGTTTCCTTTGGCGACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG  
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA  
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG  
TGCGTATTGAGCACATTTAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAAGGAAAATGATCAGAAAA  
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGTTCCAGCCTGCTCCACCCAGAGAAGCACACTTG  
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATATAGGTGTTAAAAA  
AAATAAATAAAGGACCTCTGGGCTA

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**FIGURE 1279**

MTNTKGKRRATRYMFSRPFRKHGAVPLATYMRIYKKGDIVDIKMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV  
V NKQVKGKILAKRINVRIEHI SHSKSRDSFLKCMKENDQKKKEAKEKGTWVQLKFQPAPPREAHFVRTNGKEPEL  
LELIPYEFMA



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**FIGURE 1280A**

CCGCGGGCGGGGGCGGGCTGGCGCTTACAGTGACCCGGCGCTCATTGGCTCGCTCGCGGAAGTAGTCTACATTCCGCG  
GTCAGCGCGGGGTCTCCGGGCGCCCTGCAGGGCGGGCAGGCTGTGCCATCCGCGCGGACGTCGGGATCGTGCAGC  
TGTACAACCTGCACCCGTTTCGGGTTCGACGAGGTGGTGCCCTGCAAGCTGGAGCCGGACCGGTTCTGTGGCGGGG  
GGCGTGACGCGCTTTTCGTGGCGGGCGGTGCAAGGTGGAGGCGTTCGCGGTGGCCGGCCAGGAGCTGTGCCAGC  
CGCGGTGCGCCTTCTCCACGCTGGGCGGGGTGTTGCGCCTGGCCTACAGCGAGGCTGGAGATTATTTGGTAGCAA  
TTGAAGAGAAAAACAAAGCTACATTTCTACGTGCTTATGTGAAGTGGAGAAATAAAAGGACTGAAAACTCTCGTG  
TGTGTATCCGAATGATTGGGCATAATGTGGAGGGACCATTACAGCAAAGCCTTCAGAGACCAGATGTACATTATTG  
AAATGCCGCTTTTCGGAGGCCCCCTTGTGCATTTCTGTGTGCCCTGTGAAAGGAGACCTTCTCGTTGGCTGCACAA  
ATAAATTAGTCTTATTTAGTTTGAAGTACCAGATCAATTAATGAGGAATTCTCACTATTGGACTTTGAACGTTCT  
TAATTATACACATAGATAATATCACTCCTGTTGAGGTTTCTTTTGTGTTGGATATGTTGCTGTCAATGTCAGACT  
TAGAAGTCTTAATCGTAAAAGTGGAGTCAGGCCCTAAAAATGGAGAGAGAGTTACCACCATCCACATAAGACCA  
ACAAATCGAATAAGACGGACAGAAGAAGGCATCAGTAATGAAATTCACAGCTTGAGTCAGATGATTTGTCACTCT  
GCCAGAAGCCCTGGAACCTCTTGGTGAAGAAAGTGAACAGTCTGGATTATCTGTTACACTGGAGTCTACGGGAT  
TAGCTGATGAAAAAAGAAAATATTCCCACTTTCAGCACCTGCTCTATAGACGTTTGTCTCTGATATTTCGTCTCT  
ATGCTTTGTCTGATGACATCAAGCTACATTCCTCCAGCTGCTACCCATTTACCAGACCGGTTCTCTTACATCTG  
ATGGAAGAAATTTGTCTCAGGAAAAAGAAATGCTGAGTCTCTTTGTCTTTTCTCTTACCTCATGTGGGCTATC  
TCTACATGGTTGTCAAATCTGTTGAATTGATGTCACTTACCAGTATCCTGAAAAGTCTCAGCAGGCAGTACTCA  
CGCCACAATTTTTGCACGTCATTACAAGTAACAACCTGCAGTGTTTCACTGTGCGGTGCAGTGCGGCGGCAGCTC  
GTGAGGAGGACCCGTACATGGACACCACCTGAAGGCTTGCCACCTGTCACTATGGATGTCTGTGCTTTAAGAA  
TACAGCTTTTTCATAGGCTTGAAAGCCATCTGTCACTTTAAAAACCACATCATACTTTTGACTAAAGCAGAACCTG  
AAGCCATTCCAGAGAGAAGACAGTCACCCAAGAGGCTTCTTTTCGAGAAAAGATACCAGTGTTAAATCAAAATAC  
CTCTGTAGCTGAGGCTGGGTGGAATTTGTATATTGTGAATACGATCTCACCAGTGCAGCTGTACAAAGAGATGG  
TAGACTATAGCAATACCTATAAGACTGTCAAACCCAGAGCTGCATTACCTTCTCAGTGAGGCTCATCTGTTAG  
TGCGAGCTGCCCTGATGGATGCCAGTCAGCTGGAACCTGGAGAGAAGGCAGAGCTTTTGAAGCATTTAAGGAAA  
GCTGTGGGCACCTTGGGGACTGTTACAGCAGGCTTGACTCCCGAGCATTCTCATCTCACCTTGCCATACTATAAGA  
TGCTGGTTTGTCTATGGCTGAAGTTCTGGCCCGCACGGACTGGACAGTAGAGGATGGATTACAGAAATACGAGA  
GAGGATTAATCTTTTACATTAATCATCTACTTTATGAAAACCTGGATGAAGAATTAATGAAGAATTAGCAGCAA  
AAGTGGTTTCAGATGTTTTATGTGGCTGAGCCAAAGCAAGTGCCCATATTCTCTGTAGTCTTCTATGAAGAATA  
TTAATCCTTTAATGCCATGAGCTATCTAAGGAAGCTGGATACTTCTGGGTTTTCATCGATCTTAGTGACATTGA  
CCAAGGCAGCAGTGGCTCTGAAAATGGGAGATCTTGACATGCACAGAAATGAAATGAAAAGCCATTACAGAGATGA  
AGTTGGTATGTGGCTTCACTCTGGAACCTCGGCTGTTGATTCAACAGAGAAAGGGACAGATTGTTCCAACCGAGC  
TTGCACTTCACTTGAAGGAAACTCAGCCTGGATTGCTTTGTGGCTTCAGTTCTGGGCTTGCAAGAACAACAAA  
TTGGAATTGAAGAAGCAGATTCTTTTTTAAAGGTGCTTTGTGCTAAGGATGAAGATACAATTCCTCAGCTCTTGG  
TAGACTTTTGGGAAGCTCAGCTAGTGGCATGTCTCCAGATGTGGTACTTCAGGAACCTTTTTCAAACCTCACAT  
CACAGTACATCTGGAGATTGTCTAAGAGGCAGCCTCTGACACCACACCATTGCGAACATCGGAGGATCTGATAA  
ATGCCTGTAGTCATTATGGCTTAATTTATCCATGGGTTACGTCGTAATATCATCTGATTCTTTAGCTGATAAAA  
ATTATACAGAAGATCTTTCAAAATTACAGTCTCTTATATGTGGTCCCTTCATTGACATAGCTTCCATTATTCCGT  
TCTTGGAGCCACTTTCAGAAGACACTATTGCCGCGCTCAGTGTCCATGTTCTGTGTGTCGTACACGCTTGAAAGAGT  
ATGAACAGTGACATAGACATACTGTTAGAGAGATGCCCGAGGCAGTCATTCCATATGCTAATCATGAAGTGAAG  
AAGAGAACCGGACTCTGTGGTGGAAAAAAGTGTGCTGAAGTGTGTCAGAGAATAAAATGTGGTGGAGAGAAGT  
ATCAACTCTACCTGTCACTATTAAAGAAACATTGTCATTTGTTGCTGTGGAACTAGAAGTGAAGGATTTTCATGA  
ATGTTCTCCCGAAGATGGTACTGCAACATTTTTCTTGCCATATCTTCTCTATTGTCAGTCGAAAGAAACCATTTGA  
CTTAAAGGTATCATTTGAAAAATACCATAATGGCATTGAGACTGAATTTCTAAAAATTGAATGCCAAAGTACAA  
GTAGAGGAGTTTTTTATTTTATATATACACACACACACACACACACACACACACATATATGATACAA  
ATGCTTTCAGGCTGCTTACCTTACCGTGTAGTGGTAACTATTCACTTCTTAAATTTATGACCTCAATCAATTTAAT  
TGTCTAGAATGTAAAAAGTCTTTAAGACATAAGAATTCCTCAAAGAAGCCATACATTTTTTAAAGGTGGGGATTGA  
CTTTTATTCCAAGGAACAACATCAGTTCAGTGTGTTGGAGACATGCAATCATTTTATCCCAAGAACACTTTA  
AGGAAACATTTTACAAGTATGCTTGAAGAATGTCACTAACTGGTCCAGAATTTTATCTTCTTGATTTTTCCAG

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**FIGURE 1280B**

TTTCTCTATGTTTTGAGAAAGATGTTAATGTTTTGCCATGGTAAAAGATTCAAACCTCATTTTTTTGTTTCCT  
TTTCTTGTTACTTTTAAGAAAACATGCTCTGTTTTCTCTGAATCAAATGAAGTAGAAGTTACAAAGCTAACTT  
TCTTCTTGCTAGCTATTAACATGATTGTCAAATGCATGTTTTTTTCAGCCAAAGCCTTGTTTCATTTTTGT  
GATGTGTA CTCTTGCTCTTTTAGCTAGAGTGATGTGAAAATAAAGAAATACATCATTGTATTCACAAAAAAA  
AAAAAAAAAAAA

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**FIGURE 1281**

MVQLYNLHPFGSQQVVPCKLEPDRFCGGGRDALFVAAGCKVEAFVAGQELCQPRCAFSTLGRVLRRLAYSEAGDY  
LVAIEEKNKATFLRAYVNWRNKRTENSRCIRMIGHNVEGPFSAFRDQMYIIEMPLSEAPLCISCCPVKGDLLV  
GCTNKLVLFLSKYQIINEEFSLDFERSLIIHIDNITPVEVSFCVGYVAVMSDLEVLIVKLES GPKNGERVHHHP  
HKTNNRIRRTTEEGISNEISQLESDDFVICQKPLELLGEKSEQSGLSVTLESTGLADEKRKYSHFQHLLYRRFAPD  
ISSYVLSDDIKLHSLQLLPYQGTGSLTSDGKNLSQEKELLSLFCFFSLPHVGYLYMVVKSVELMSVYQYPEKSQQ  
AVLTPQFLHVITSNNLQCFTVRCSSAAAAREEDPYMDTTLKACPPVSMVDCALRIQLFIGLKAICHFKNHIILLTK  
AEPEAIPERRQSPKRLLSRKDTSVKIKIPPVAEAGWNLYIVNTISPVQLYKEMVDYSNTYKTVKTQSCIHLLSEA  
HLLVRAALMDASQLEPGEKAELLEAFKESCGHLGDCYSRLDSQHSHTLPYYKMSGLSMAEVLARTDWTVEDGLQ  
KYERGLIFYINHSLYENLDEELNEELA AKVVQMFYVAEPKQVPHILCSPSMKNINPLTAMSYLRKLDTSGFSSIL  
VTLTKAAVALKMGDLDMHRNEMKSHSEMKLVCGFIEPRLLIQQRKGQIVPTALHLKETQPGLLVASVLGLQK  
NNKIGIEEADSFFKVLCAKDEDTIPQLLVDFWEAQLVACLPDVVLQELFFKLTSQYIWRLSKRQPPDTPPLRTSE  
DLINACSHYGLIYPWVHVVISSDSLADKNYTEDLSKLQSLICGPSFDIASIIPFLEPLSEDTIAGLSVHVLCTR  
LKEYEQCIDILLERCPEAVIPYANHELKEENRTLWWKKLLPELCQRIKCGGEKYQLYLSSLKETLSIVAVELELK  
DFMNVLPEDGTATFFLPYLLYCSRKKPLT

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**FIGURE 1282**

GGCACGAGGGCTTCTCCTGCGCCTCCTTTTCGCCCAGCACTAGCGCCTTAGGCCAGCTCGGGGGATGTGAGAGCC  
GAAGCCCTTAGACTGCCAGGCACAGAGTCGGGTCGGGATTTGTGAGCCAAGCCTCGGCTCCAGCTCCGCAATCTC  
GGGACTCACCCGAGCGACCCAGGCCCCGACGGCAAGTTCGGGCGGGACGGCGGCCGCCGCGGCTCAGGCTCAGCT  
TCGCTGCCCGCCAGAAAGATGAATCCGGCCTCGGCGCCCCCTCCGCTCCCGCCGCCTGGGCAGCAAGTGATCCAC  
GTCACGCAGGACCTAGACACAGACCTCGAAGCCCTCTTCAACTCTGTGATGAATCCGAAGCCTAGCTCGTGGCGG  
AAGAAGATCCTGCCGGAGTCTTTCTTTAAGGAGCCTGATTGCGGGCTCGCACTCGCGCCAGTCCAGCACCAGCTCG  
TCGGGCGGCCACCCGGGGCCTCGACTGGCTGGGGGTGCCAGCATGTCCGCTCGCACTCGTCGCCCGCTCCCTG  
CAGCTGGGCACCGGCGCGGGTGCTGCGGGTAGCCCCGCGCAGCAGCAGCGCACCTCCGCCAGCAGTCTTACGAC  
GTGACCGACGAGCTGCCACTGCCCCCGGGCTGGGAGATGACCTTCACGGCCACTGGCCAGAGGTACTTCTCAAT  
CACATAGAAAAAATCACCACATGGCAAGACCCTAGGAAGGCGATGAATCAGCCTCTGAATCATATGAACCTCCAC  
CCTGCCGTGAGTCCACACCAAGTGCCTCAGAGGTCCATGGCAGTATCCCAGCCAAATCTCGTGATGAATCACCAA  
CACCAGCAGCAGATGGCCCCCAGTACCTTGAGCCAGCAGACAGCAACCCCACTCAGAACCCACCCGAGGGCTCATG  
AGTATGCCCAATGCGCTGACCACTCAGCAGCAGCAGCAGCAGAAACTGCGGCTTCAGAGAATCCAGATGGAGAGA  
GAAAGGATTGGAATGCGCCAAGAGGAGCTCATGAGGCAGGAAGCTGCCCTCTGTGACAGCTCCCCATGGAAGCT  
GAGACTCTTGCCCCAGTTCAGGCTGCTGTCAACCCACCCACGATGACCCAGACATGAGATCCATCACTAATAAT  
AGCTCAGATCCTTTCTCAATGGAGGGCCATATCATTGAGGGAGCAGAGCACTGACAGTGGCCTGGGGTTAGGG  
TGCTACAGTGTCCCCACAACCTCCGAGGAGTTCCTCAGCAATGTGGATGAGATGGATACAGGAGAAAACGCAGGA  
CAAACACCCATGAACATCAATCCCCAACAGACCCGTTTCCCTGATTTCCTTGACTGTCTTCCAGGAACAAACGTT  
GACTTAGGAACCTTGGAATCTGAAGACCTGATCCCCCTCTTCAATGATGTAGAGTCTGCTCTGAACAAAAGTGAG  
CCCTTTCTAACCTGGCTGTAAATCACTACCATTGTAACCTTGGATGTAGCCATGACCTTACATTTCTGGGCCCTCTT  
GGAAAAAGTGATGGAGCAGAGCAAGTCTGCAGGTGCACCACTTCCCGCCTCCATGACTCGTGCTCCCTCCTTTTT  
ATGTTGCCAGTTTAATCATTGCTGGTTTTGATTGAGAGTAACCTAAGTTAAACATAAATAAATATTCTATTTTC  
ATTTTCTGCAAGCCTGCGTTCTTGTGACAGATTATACAGAATTGTGTCTGCAGGATTGATTATGCAGAATACTTT  
TCTCTTTCTCTCTGCTGCCCATGGCTAAGCTTTATGGGTGTTAATTGAAATTTATACACCAATTGATTTTAAA  
CCATAAAAAGCTGACCACAGGCAGTTACTTCTGAGGGCATCTTGGTCCAGGAAATGTGCACAAAATTCGACCTGA  
TTTACAGTTTCAAAAATGTATTGATGACAGTAGTACCAATGCTTTAAAACTATTTAACTTGAGCTTTAAAAA  
TCATTGTATGGATAGTAAATTTCTACTGTATGGAATACAATGTAATTTGAATCAAAAAAAAAAAAAAAAAA

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**FIGURE 1283**

MNPASAPPFLPPPGQQVIHVTQDLDTDLLEALFNSVMNPKPSSWRKKILPESFFKEPD SGSHSRQSSTDSSGGHPG  
PRLAGGAQHVRSHSSPASLQLGTGAGAAGSPAQQHAHLRQQSYDVDELPLPPGWEMTFTATGQRYFLNHIEKIT  
TWQDPRKAMNQPLNHNMLHPAVSSTPVPQRSMASQPNLVMNHQHQQQMAPSTLSQQNHPTQNPPAGLMSMPNAL  
TTQQQQQKLRLQRIQMERERIRMRQEELMRQEAALCRQLPMEATLAPVQAAVNPPMTTPDMRSITNNSDPFL  
NGGPYHSREQSTD SGLGLGCYSVPTTPEDFLSNVDEMDTGENAGQTPMNINPQQTRFPDFLDCLPGTNVDLGTLE  
SEDLIPLFNDVESALNKSEPFLLTWL

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**FIGURE 1284**

CTTCCTCTTTCACTCCGCGCTCACGGCGGCGGCCAAAGCGGCGGCGACGGCGGCGCGAGAACGACCCGGCGGCCA  
GTTCTCTTCTCTCTGCGCACCTGCCCCGCTCGGTCACTCAGTCGGCGGCGCGCGCCGGCTTGCTCAGACCTC  
GCGCTTGCGGCGCCAGGCCAGCGGCGTAGCTAGCGTCTGGCCTGAGAACCTCGGCGCTCCGGCGGCGCGGGC  
ACCACGAGCCGAGCCTCGCAGCGGCTCCAGAGGAGGCGAGTGAGCGAGTCCGAGGGGTGGCCGGGCGCAGGT  
GGTGGCGCCGCGAAGATGGTCGCCAAGCAAAGGATCCGTATGGCCAACGAGAAGCACAGCAAGAACATCACCCAG  
CGCGGCAACGTCGCCAAGACCTCGAGAAATGCCCCGAAGAGAAGGCGTCTGTAGGACCCTGGTTATTGGCTCTC  
TTCATTTTTGTTGCTGTGGTTCTGCAATTTCCAGATTATTCAAAGTATCAGGATGGGCATGTGAAGTGAAGTGA  
CCTTAAGATGTTTCCATTCTCCTGTGAATTTAACTTGAAGTCAATTCCTGATGTTTGATACCCTGGTTGAAAACA  
ATTAGTAAAGCATCCTGCCTCAGAATGACTTTCTATCATGCTTCATGTGTCATTCCAAGGTTTCTTCATGAGT  
CATTCCAAGTTTTCTAGTCCATACACAGTGCCTTGCAAAAAACACCACATGAATAAAGCAATAAAATTTGATTG  
TTAAGATACAGTAGTGACCCCTACTTATTCAGTCAATTAAGAGTAAGTTTTTTATGTGTTTATTAACAGTAT  
GAACAATTAGTCTAACTCTGCATAGACAGGGTCTAGATTTTGTTAAACCAAATGTATAACTGCAGTTAGCTTAA  
TTACAATTTGAAGTCTTGTTGTTTTTATATAGCTAGGCACTTTATTACTCTTTGAACTGAAAGCACACTCCCTT  
ATAGGTTTCATGTAAGTGTCTGTAAATAAGGTGCTTATAAATGGAACAACACACAGCCTAGTTTGGCACAACCT  
TTAGCATCTAAAAAGTTTTAAAGCTTCTAAATGTCTAATATAAAGGGAGATGCTTATAGCCACAACATCTATTT  
TACCAATATTGTTTCCATTACACTACCTTGGATTTTGCATGAGTGAGTATAGTAACCCAAGATGCCATAAAAAA  
AACTTGATCGTTTTCTGACTTAATTAGTTACTGTGTTTCACTAAAAGCTACCGTGGTGGAGTGAAGTCAGTCAG  
GGAAGGTTTGTATTATGTTACATTTATTTACCAGAACTATTTAATATATCAAAGGGGTTTACTATGCCAAACAA  
AATTCTAGGGAAAAAATACTGCTAAAAATGGATGCCTCATCAGAACATGCTGTTGAGTCCAATGTGCCATAAGACA  
TTTTAGCATGTTAAATAGCACTTTTAAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAT  
GCTTTTTCTAGATTAATGATTTTTCAATCATTAGGGTACTAGACACATCAGCCTAAAGTGGCATCTGGAATTGAA  
TGGATTTACTGATAATGATCAGTCTTTAGTCTTCCCTTTGTTATATGACTTTATAGGTTATGATGATCAAATTT  
ACGTTTTACTAATGGTAAGGGTGAGGGTCATAGGGCAGGTTTTGGGTTTTCTAGTACTGTTGAAAACGCAAGTA  
TTGGCTATTTGTATACTTAGCCATAACTTGGTGAAAAAAACCTGAGCAGTGTCTATGTATTAAATGCGTTGGAAA  
GAAAGCTGCTTGTGTTTGCTTTGTTAATTGCCTCAGGATATTTCTTTTAAATAAGCTGTTTTAAGAGGAACAGA  
AGGGAATCTGCTACCTAGTCTATACACAGCGTGAACCTCACAGGGGGCTTCTGATACCCTCAAACATGGAGAAC  
AGTAAGGGAGCAGAGTGTTAAGGACTTTCAGGAACCTTAACCTTCTGGAATAAGGAATGAATCAACTGACCTTG  
GGCCAGCAGGTTTTTAATAAATTGTTACTTGCCTTTCTCAGGAGTTAATCAGTCTCTGTACTTGTTCCTTTT  
TTGAAACAAGTGTCTTGTTAACTAATTCTGTTTTATGTTGTGCTAAATTCATAGCAGGTGCCTTATTCTTTG  
TTTTAGTCAAACCATTCATATCAGAATTTTCTTGGTTTACTATAGATATTTGGCTTTAAGTTGTTGTTTGTGT  
TTTTAATGTACAATGTTCTGATAAATTTGACTGTTAAATTGCTATAGCTAGCAATCATTTTACATATGTAAAA  
ATTGCATTCCCTTTGTATTTTCAATGTGTAATTCACCAATTAAGTGCAGTTTATATTCAGGTTGGATTATGCATGTT  
TAGGTAACGAAAGCTGTGTCTTACTTGATTTATTCTTTAAAAATAAAGTTCCCTGAATATTTGAAAAA  
AAAAA

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**FIGURE 1285**

MVAKQRIRMANEKHSKNITQRGNVAKTSRNASPEEKASVGPWLLALFIFVVCGSAIFQIIQSIRMGM

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**FIGURE 1286**

GCATGAGGAGACGTGTAGGGGCCGGGTTTCGGCCCTGGTGAACCTCTACCCGAGCGGTTTCTCTTTCCGGGACAAC  
ATGGCGCCGTCCACGCCGCTCTTGACAGXXX  
XXXXXXXXXXXXXXXXXXXXXXXXXGGAATCTGGGAAGAATTGCAAAGTCTGTATCTTTAGTAAGGATGGGACCTTG  
TTTGCCTGGGGCAATGGAGAAAAAGTAAATATTATCAGTGTCACTAACAAGGGACTACTGCACTCCTTCGACCTC  
CTGAAGGCAGTTTGCCITGAATTCTACCCAAAAATACTGTCCTGGCAACGTGGCAGCCTTACACTACTTCTAAA  
GATGGCACAGCTGGGATACCCAACTACAACCTTATGATGTGAAAACCTGGGACATGTTTGAAATCTTTCATCCAG  
AAAAAATGCAAAATTGGTGTCCATCCTGGTCAGAAGATGAACTCTTTGTGCCCGCAATGTTAACAATGAAGTT  
CACTTCTTTGAAAACAACAATTTTAACACAATTGCAATAAATTGCATTTGCAAAAAATTAATGATTTTGTATTA  
TCACCTGGACCCCAACCATACAAGGTGGCTGTCTATGTTCCAGGAAGTAAAGGTGCACCTTCATTTGTTAGATTA  
TATCAGTACCCCAACTTTGCTGGACCTCATGCAGCTTTAGCTAATAAAAGTTTCTTTAAGGCAGATAAAGTTACA  
ATGCTGTGGAATAAAAAAGCTACTGCTGTGTTGGTAATAGCTAGCACAGATGTTGACAAGACAGGAGCTTCCTAC  
TATGGAGAACAACTCTACACTACATTGCAACAAATGGAGAAAGTGCTGTAGTGCAATTACCAAAAAATGGCCCC  
ATTTATGATGTAGTTTGGAAATCTAGTTCTACTGAGTTTTGTGCTGTATATGGTTTTATGCCTGCCAAAGCGACA  
ATTTTCAACTTGAAATGTGATCCTGTATTTGACTTTGGAACCTGGTCTCGTAATGCAGCCTACTATAGCCCTCAT  
GGACATATATTAGTATTAGCTGGATTTGGAATCTGAGGGGACAAATGGAAGTGTGGGATGTGAAAACTACAAA  
CTTATTTCTAAACCGGTGGCTTCGATTCTACATATTTTGCTTGGTGCCCGGATGGTGAGCATATTTTAACAGCT  
ACATGTGCTCCCAGGTTACGGGTTAATAATGGATACAAATTTGGCATTATAGTGGCTCTATCTTGACAAAGTAT  
GATGTGCCATCAAATGCAGAATTATGGCAGGTTTCTTGGCAGCCATTTTGGATGGAATATTTCCAGCAAAAAACA  
ATACTTACCAAGCAGTTCCAAGTGAAGTACCCAATGAGGAACCTAAAGTTGCAACAGCTTATAGACCCCCAGCT  
TTAAGAAATAAACCAATCACCATTCCAAATTGCATGAAGAGGAACCACTCAGAATATGAAACCACAATCAGGA  
AACGATAAGCCATTATCAAAAACAGCTCTTAAAAATCAAAGGAAGCATGAAGCTAAGAAAGCTGCAAGCAGGAA  
GCAAGAAGTGACAAGAGTCCAGATTTGGCACCTACTCCTGCCCCACAGAGCACACCACGAAACACTGTCTCTCAG  
TCAATTTCTGGGGACCCTGAGATAGACAAAAAATCAAGAACCTAAAGAAGAACTGAAAGCAATCGAACAACCTG  
AAAGAACAAGCAGCAACTGGAAAAACAGCTAGAAAAAATCAG



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**FIGURE 1287**

MQNWCPSWSEDETLCAENVNNEVHFFENNNTIANKLHLQKINDFVLSPGPQPYKVAVYVPGSKGAPSFVRLYQ  
YPNFAGPHAALANKSFFKADKVTMLWNKKATAVLVIASDVDTGASYGEQTLHYIATNGESAVVQLPKNGPIY  
DVVWNSSTEFCAVYGFMPAKATIFNLKCDPVDFGTGPRNAAYYSPHGHILVLAGFGNLRGQMEVWDVKNYKLI  
SKPVASDSTYFAWCPDGEHILTATCAPRLRVNNGYKIWHYTGSIHLYDVPSNAELWQVSWQPFLLDGIFPAKTIT  
YQAVPSEVPNEEPKVATAYRPPALRNKPITNSKLHEEEPPQNMKPQSGNDKPLSKTALKNQKHEAKKAQKQEAR  
SDKSPDLAPTPAPQSTPRNTVSQSIGDPEIDKKIKNLKKKLKAEQLKEQAATGKQLEKNQLEKIQKETALLQE  
LEDLELGI

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**FIGURE 1288A**

GGCCGTTGCTCCAGGGAGAACTGCAAAATATCTTCATCCACCCCCACATTTAAAAACGCAGTTGGAGATAAAATGGA  
CGCAATAACTTTGATTACAGCAGAAGAACATGGCCATGTTGGCCCAGCAAATGCAACTAGCCAATGCCATGATGCCT  
GGTGCCCCATTACAACCCGTGCCAATGTTTTAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCCTTT  
AATCCCTATCTGGGACCTGTTTCTCCAAGCCTGGTCCCGGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACA  
GGGAATCCGGGTGTCCCTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAG  
GTATGTCGAGAGTACCAACGTGGCAATTGCAACCGAGGAGAAAATGATTGTCGGTTTGCTCATCTGCTGACAGC  
ACAATGATTGACACCAATGACAACACAGTCACTGTGTGATGGATTACATCAAAGGGAGATGCTCTCGGGAAAAAG  
TGCAAAATACTTTTCATCCCCCTGCACATTTGCAAGCCAAGATCAAGGCTGCCCAATACCAGGTCAACCAGGCTGCA  
GCTGCACAGGCTGCAGCCACCGCAGCTGCCATGACTCAGTCGGCTGTCAAATCACTGAAGCGACCCCTCGAGGCA  
ACCTTTGACCTGGGAATTCTCAAGCTGTACTTCCCCCATTACCAAAGAGGCCTGCTCTTGAAAAACCAACGGT  
GCCACCGCAGTCTTTAACACTGGTATTTTCCAATACCAACAGGCTCTAGCCAACATGCAGTTACAACAGCATACA  
GCATTTCTCCACCAGTTCCCATGGTGCACGGTGCTACGCCAGCCACTGTGTCCGCAGCAACAACATCTGCCACA  
AGTGTTCCTTTCGCTGCAACAGCCACAGCCAACAGATACCCATAATATCTGCCGAACATCTGACTAGCCACAAG  
TATGTTACCCAGATGTAGAATTTTCATCACTAAACAATCATGCTAAAGAGGAAAAGGACAGTGTGCTTGGTTAGAG  
TAAAGGACGAGGTCAATTAGCCATATTGTATATATCGTCAAGCAACACACAAAAAGTTCCTCGACCCACAAGACAT  
CCACATATTGCATGTTAACCAGAAGAAAAGACAACATTTTCCGGAAATCCACTGCACACTGTTGCCTATACACTT  
TGTACATTTAATTGATATTGTGCTGAGGTGATATTCCTGTCTAAAAGAACAAACATTGTCTTTCTTTCTAGCAC  
AGAGTTATGCATTCAAAGATGCATACCTAGTTAGTTTCTATATATTTCATGCCATCTTGAAAAGACAGACTATGG  
TGTAACCATGATTCTATTATGTATTGGTACGTCTGTAGACCAAGATATAATTTTAAAAATAAGTTTATTTCTT  
TCAAGGTTTACAAATAACAAAGGTGCACCTGTATTTAAATTTGCCATTATAGATGAGAGCGTGCATGCACAGTC  
ATTTTGTTTAAGAGTAATATTTTAAATGTAATAGATTGTAAGACGTGGTGAGGGAGGGATCTGCAGAGATGAA  
TGTGCCAAGCAAAACCACAACTGTGTATATTTAAAGCACATCATGGCTTTAAGTACCATGTTGTTAAGGATTCT  
CATGAAGTGCCATAGACTGTACATCAAATTAGAGTATTTTCTTCAGTGTTATTGTTTTTCAGAGCCACATTTTG  
TTGCATATTTGCTAGTACTAATCAGTCAAAGGGCACCATTCTTTTTTTTTTTTTTGAACCAAAGCTGTCTCAG  
AAATGGCCAATTTAACTTTACAGTAACAATAGACAGCACAAACAACTCTCTCAATACAGATAAACTCACACAT  
ACTGGAGATATATATATAATAGATATATATAAAATTATTTTAAATGCATTGTAGTGTAATATTTATGCATACTATA  
CTGTATAACATGTTATTCAAAGGGATTGCCATTTCTGAGACACAGTAACAAAAAATGAGGAAATATTTTGTCT  
TCTATTTATAGCCTCTGTCAAAAGTCAAAGACTATAAATGCTTTGCAAAATGGTTTCACGTTTGCTTAAATGC  
TTCATCACAGTCACATTCAAAATAGTACTCTAAACAAAGAAAGCAGCACTGTCTCATCAGATGCATGATAAAC  
CAAAATATGAAAATGGGAAATGTTTAAATTAACCTAGTAATTTGGGTGGGTTAAGTACATGGGTGAATTTTATATGT  
GATTTTGTGTTTGTGTTTGTGTTTGTTCAGATTAACCTGCTTATAGCCTTAGAAAGCCTTTTACAAAATTAAAAAA  
AATAGATGTGCATTCACTTTTAAAGAAATGGAATCATCCAAAGGAATTCCTTTTTTGGAGTTTGGATGTTGCAGC  
TAGTAAAGGATATTTTGTCTCTGTTCAAGCTTCTAAAAATGCTGAAGTAGGGGCCAGGTCAGTGGTAGTTATA  
GTATGGAATGGGAGAAGTGAAGTTCACTTATAGAACTTCCATACTTCCAAGTTTACTGCAAGTTTTTATGCTT  
GAGAGAGATGCTTTCTAATATAAGACTGATGTGTTGATTTTACTGATTGTACTGTACATCTATTAAAGCCTTAGA  
TTATTACATTACGGGTGGAACCCATACCAATGTAATTTCAATCGTGTTAAGAAAGTAATGGTGACTTCACATGT  
TATTGTAGTTAGTTACATTATAGAATATTACTTATTTTCTTGTTAAATGTAGTTTTTCATTTCTACATTTAT  
TAGATTTTCATTTTCTATTAACAATTGAATACCATTTCACTTTATAGACTTGTTTTATTAGATTTTACCAATGAA  
TTTTTCAAAATACAAAAAAGTAGTTTTTCTTTCATAACATACTCAGTTTTGAATTACATGTAGTGTACATGA  
ATATTCGTATTGTTAACTAAATGATTATATTTTACTGATTTAATATTACAGTGTAAGAAATGTCAGTCATTGTTA  
GTTCTTGCTAGTTTTTCATTAAAGAAACAAAGATCTTTATATGGATATCTTATAAATATATAATCATTGCTAAG  
TAAGAAGTTAAGTTGTTGCTATCGCAACAATCCTGGCAGACAATTGAGTAATATTTTGTAGATTATTTTGTGTTG  
TAATTAGTTATTATAAGAAGATCTAGATCCTAGATATTAGAATAAAATTTATTTTCTACTGTATCCATTTCAAAT  
GTTAAATATTGTTAATATTTTGAATCCCTGAGTATCAGGCCTTGTTATAAATAAGCTGCATAATCAATAAA  
TAGAACAAGGGACTTTTTGTTGATAATCCAAATACTCAAAGTTTACGTAATGAAAATTATAGCGTGTGTGCAAC  
TCTTGAGGGTTGATTATGCTGCAATTTAGCATGTTGGAACGCTTAGGGAGAAGGTTGACTTTTTGCACCTCTGTA  
TATAGTCAAAGAGAGAAACCTGTATAATAGTAAGATCTTATTTGAATAAAAACGCTCTATAATTACAAGGAGTT  
TTGTTAAGGCTAATACAATGACAGACTGAGCAAAATGCTTGCAAAAGTGGCACAGAGTTAGCACTCCATACCCC

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**FIGURE 1288B**

TTCAAACATGTTGCTTTGCTTCTTGTGGACAGCTTGTAGTTTGCCAGGATTTTTTCAGCTGGAAAGATACGCCA  
TCCTTTCAAACCCCTCATGACTGACAAAACTCCATGGGGCCAAATCTGCCTGAAGATCATTACCAAAAATAGCAG  
GTACTTCTACCATTAAGGTGAAATCATGGATCAGATATTCCTTACATTTTCAAACACTACTGCATGTTTAAACT  
TCAACAAAAAAGAGAGAAAGAACTATACTAAGAACATATATTATTCAGATCAGTTTCTGCCAATTTCAGTGGTT  
TATTGTTCAAAAAAATCTTCAAACAAGTATTGACTTTCACAAAATTTAAATCATAAACAGGCAAACCAAACA  
GCACACTGTAGCTATAGTTGTTATGTGATTGTTTTTAATTGCTGTAGGATCCTGTTCTTTCAGCAGGTGAAAAA  
TAAACGCAGTTCAAATTTTATGGTTTTTAAATTTCAACTCAGAAGCACTCAAAAATGCAAATGTGATAATGGGC  
ACTTGTTTAAAAGAATTAGTGTATCCAGCCTTCACTCCAGCTGGTTAAAAATGTTGCACTTATCAGCAACCCTAC  
CACTTTCATCTGCTGAAAGGACAAATGTGCTTGGTTTTACTATTATGTAATCACAACCTACTTTCTGCTTGTAGT  
TGCTTAAATATGTATTTTGTCTTGGGCTGCAATTTGTTTTATGCTTATTTTATTATTACTGCAGTAGTTGACT  
TTGCTGTATGAAAAATAAAGTGAAATTGCCCTAATAAACTTCTCTTTCTTAAGT

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**FIGURE 1289**

ATGTGGAGAAAGCCAGGGGACCCACAGAAGGCTGCCTGTGGCCACGTCATAGCAAAGGAACTTTATGGAGAGGAG  
CAGGAAGTCAGAGAGCCAGCTGAATTCAAGAATCTGATAGGAGAGAAGATGTCAGTCCCTCTGGAAGAAGTTAGC  
AAAGTTGTGGCCTTGAATGGGAAGGGACAGAAGAGAGGTTTCAGGGTTCGAGGCTGAGGCAACAGGAACTGCCTG  
GAATGGAACCTTGCCAAGGGGGATAGGAGGTGCAGGCCGGGGCCTCTTGGGAGAAAGAGCTGCACCATCTTCCAAC  
ACCTGTGGGAATGCTGTCTTGAACAACACTGCAGCAGCCAGTCATGAGCCAAGGAAGCAGACAAGAGCAACGAACA  
CAGGCATTGTGCATACAGACCTACCCAGAGAAGCCAGTATCCATGGCTTTGGAGAGTTCAAATATTCAATTTTCC  
GTTCAAAAAAAGGCCACGCCACCGGCTAAGAGTTCCGCCAGGGGCCAGCTCTCAGGAGGCCTCTTCGGTGCCGC  
CAGCCTCCCGAAGTCATCCAAGGTAGCAGGCAAATCCGGCAGCAGCAAACCTAGCTCGGATTCGGCTTCGGTTTTT  
CTCCTGGCCGGCGCCACAGGCCCTCCTCCCGGGCGGGCTCCTCGGCCTCCTTCTCAACCTCAGCCCGCGGCGC  
CGACCTTCCGGCACCTCCCGCCCCGCTCTCGTACTGTCCGCGTCACCGCCGCGGCTCCGGCCCTGGCCCCGATG  
GCTCTGTGCAACGGAGACTCCAAGCCTTGGGCTCCGCGGCGGTTAGGCCGCTTCTGGACGAACCCCTCGGAGCTG  
CACTGTCTTCCCCCTCCCCAACGCCCTGCAGGCCCGCGTGAGGGCTGGTGGCCCCAGGGTCGCGCACTCCGTT  
CTCCCTCCCCGCTTCCTTCTCAGAGAGGAAAGGGTGTGTGTCCAGGTCCCGCCTCCGTCCAGCTTGCTCCCTGTC  
GAGCTTGCTGGTTTTCGGGGTAACCCGCTTCCCGCCTTTGGGGTCCCTCCCCGGGACGCGAGCCGTGCCAGCTC  
GCCCAGGCCCTGGGCAGTCCGGAGTTCCGGAGTGCTGGAAAAGTTGCCGCCTTGACGTACCCGGCGGGGAGAGCA  
CGTTTGACCGCTGCTGCTCATCTCTCCTCCAACCTCACTTTTCTTAGACCGTTCCTCTTACTTTCGTCCCGCTTT  
GAATTGGGCACCTTCGCTTTCACCTCTGTATTAAATTTTCATTGGCCTGGAGTTCTTTCTGA

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**FIGURE 1290**

AGGCATAGCAAATGAATCTAAAAAGTTATATGGAGCACAGTTCCACCCTGAAGTTGGCCTTACAGAAAATGGAAA  
AGTAATACTGAAGAATTTCCCTTTATGATATAGCTGGATGCAGTGGAACCTTCACCGTGCAGAACAGAGAACTTGA  
GTGTATTTCGAGAGATCAAAGAGAGAGTAGGCACGTCAAAAGTTTTGGTTTTACTCAGTGGTGGAGTAGACTCAAC  
AGTTTGTACAGCTTTGCTAAATCGTGCTTTGAACCAAGAACAAGTCATTGCTGTGCACATTGATAATGGCTTTAT  
GAGAAAACGAGAAAGCCAGTCTGTTGAAGAGGCCCTCAAAAAGCTTGGAAATTCAGGTCAAAGTGATAAATGCTGC  
TCATTCTTTCTACAATGGAACAACAACCTACCAATATCAGATGAAGATAGAACCCACGGAAAAGAATTAGCAA  
AACGTTAAATATGACCACAAGTCCTGAAGAGAAAAGAAAAATCATTGGGGATACTTTTGTAAAGATTGCCAATGA  
AGTAATTGGAGAAATGAACTTGAAACCAGAGGAGGTTTTCTTGCCCAAGGTACTTTACGGCCTGATCTAATTGA  
AAGTGCATCCCTTGTTGCAAGTGGCAAAGCTGAACTCATCAAAACCCATCACAATGACACAGAGCTCATCAGAAA  
GTTGAGAGAGGAGGGAAAAGTAATAGAACCTCTGAAAGATTTTCATAAAGATGAAGTGAGAATTTTGGGCAGAGA  
ACTTGGACTTCCAGAAGAGTTAGTTTCCAGGCATCCATTCCAGGTCTGCGCTGGCAATCAGAGTAATATGTGC  
TGAAGAACCTTATATTTGTAAGGACTTTCCTGAAACCAACAATATTTTGAATAAGTAGCTGATTTTTCTGCAAG  
TGTTAAAAAGCCACATACCCTATTACAGAGAGTCAAAGCCTGCACAACAGAAGAGGATCAGGAGAAGCTGATGCA  
AATTACCAGTCTGCATTCACTGAATGCCTTCTTGCTGCCAATTAATACTGTAGGTGTGCAGGGTGAAGTGTGCTC  
CTACAGTTACGTGTGTGGAATCTCCAGTAAAGATGAACCTGACTGGGAATCACTTATTTTTCTGGCTAGGCTTAT  
ACCTCGCATGTGTCAACGTTAACAGAGTTGTTTATATATTTGGCCCAAGCTTAAAGAACCTCCTACAGATGT  
TACTCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTTGAGGCCCATACATTCTCAG  
GGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATTACATTTTGATCGGGACCCACT  
TCAAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTCGAACCTTTATTACTAGTGAAGTTCATGACTGGTATACC  
TGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAGATTAAGAAGATTCTGGTAT  
TTCTCGAATTATGTATGACTTAACATCAAAGCCCCCAGGAAGTACTGAGTGGGAGTAATAAACTTC

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**FIGURE 1291**

GACCCTTTTACAAACATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCTGAAGCCAAAGCGAAG  
GCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCACC  
TTCCGGCGGCCGAAGACACTGCGACTCCGGAGACAGCCCAGATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAG  
CTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACA  
CTTGTTTCATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGAT  
GTGGCCAAGGTCAACATCCTGATTCCGGCCTGATGGAGAGAAGAAGGCATATGTTGACTGGCTCCTGATTACGAT  
GCTTTGGATGTTGCCAACAAAATTGGGATCATCTAAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATAT  
ATATCTTTTCACCAT

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**FIGURE 1292A**

GATGAAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGGAATATTGCTACATAC  
TATGGTGCTTTTATCAAAAAGAACCACCAGGCATGGATGACCAACTTTGGTTGGTGATGGAGTTTGTGGTGCT  
GGCTCTGTCAACGACCTGATCAAGAACACAAAAGGTAACACGTTGAAAGAGGAGTGATTGCATACATCTGCAGG  
GAAATCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATTTCATCGAGATATTAAAGGGCAAAATGTCTTG  
CTGACTGAAAATGCAGAAGTTAACTAGTGGACTTTGGAGTCAGTGCTCAGCTTGATCGAACAGTGGGCAGGAGG  
AATACTTTTCATTGGAATCCCTACTGGATGGCACCAGAAGTTATTGCCTGTGATGAAAACCCAGATGCCACATAT  
GATTTCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGAC  
ATGCACCCCATGAGAGCTCTCTTCTCATCCCCCGGAACCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAA  
AAATTCAGTCAATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACAGAACAATTGATGAAG  
CATCCATTATACGAGACCAACCTAATGAGCGACAGGTCCGCATTCAACTCAAGGACCATATTGATAGAACAAAG  
AAGAAGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGGAAGTGAGGAAGAAGAGGAGGAGAATGACTCA  
GGAGAGCCAGCTCCATCCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCC  
AACAAGGAGCGTTCTGAGGCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGGAGAATGAGGAGCACAAGCGGC  
AGCTGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAGCAGAGGCGGCGGCTGGAGGAGCAACAAAGGC  
GAGAGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGG  
AGAGGAGCGGTGCGGAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATCT  
TGCAGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATATAAGCGCAACAATTGGAAGAACAGAGACAAG  
CAGAAAGACTGCAGAGGCGAGCTAAAGCAAGAAAGAGACTACTTAGTTTCCCTTCAGCATCAGCGGCAGGAGCAGA  
GGCCTGTGGAGAAGAAGCCACTGTACCAATTACAAAGAAGGAATGAGTCTTAGTGAGAAGCCAGCATGGGCCAAGG  
AGGTAGAAGAAGCGTCAAGGCTCAACCGGCAAGTTCCCTGCCATGCCTCACAGGTTGCCAACAGGATATCTG  
ACCCCAACCTGCCCCCAAGGTGCGAGTCTTTCAGCATTAGTGGAGTTTCAGCTGCTCGAACACCCCCATGCTCA  
GACCAGTCGATCCCCAGATCCACATCTGGTAGCTGTAAATCCCAGGGACCTGCCTTGACCGCTCCAGTCAG  
TGCACGAGCAGCCACAAAGGGCCTCTCTGGGTTTCAGGAGGCTCTGAACGTGACCTCCCACGCGTGGAGATGC  
CACGCCAGAATCAGATCCCACTCGGAAAATCCTCTCTCCCCACTCGCATTGAAAAGTTTGACCGAAGCTCTT  
GGTTACGACAGGAAGAAGACATTCCACCAAGGTGCCTCAAAGAACAATTTCTATATCCCCAGCATTAGCCAGAA  
AGAATTCTCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGATCTCAACCCATCAGAGCAAGCAACCCGTGATC  
TCCGGAGAATGAGCCCATCTTGGAGAGCCCTTGCAGAGGACCAGCAGTGGCAGTTCTCCAGCTCCAGACCCC  
CTAGCTCCAGCCAGCTCCCAAGGAGGCTCCAGCCTGGATCACAAGCAGGATCCAGTGAACGCACGACAGATTTC  
GAGCCAACAGTAAGTCAGAAGGATCACCTGTGCTCCCCCATGAGCCTGCGAAGGTGAAACCAGAAGAATCCAGGG  
ACATTACCCGGCCAGTCGACAGCTAGCTACAAAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAAGAAC  
TAAGAGAATCCGGATTGAAGAAACAACCGCCCAATGAAGAAGGTGACTGATTACTCCTCCTCCAGTGAGGAGT  
CAGAAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACCCATGATGGGACAGTGGCTGTGACGGACATAC  
CCAGACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGG  
AGACCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACGTCTGGAG  
AGAAGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGCCACATCAACCTCCCTGACCTGGTGCAGCAGA  
GCCATTCTCCAGCTGGAACCCCGACTGAGGGACTGGGGCGCGTCTCAACCCATTCCAGGAGATGGACTCTGGGA  
CTGAATATGGCATGGGGAGCAGCACCAAGCCTCCTTACCCCTTTGTGGACCCAGAGTATACCAGACGTCTC  
CCACTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGAGCTCTGTTTACTAGCGAACTTCTTAGGCAAGAAC  
AGGCCAAACTCAATGAAGCAAGAAAGATTTTCGGTGGTAAATGTAAACCAACCAACATTTCGGCCTCATAGCGACA  
CACCAGAAATCAGAAAAACAAGAAACGATTCAACTCAGAAATACTTTGTGAGCTCTGTGGGGTGTAAACCTTC  
TGGTGGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTGGGCAAGGCAAGTCTATAATCTGATCAACCGGA  
GGCGATTTCAGCAGATGGATGTGCTAGAGGCTGAATGTCTTGTGACAATTTTCAGGAAAGAAGATAAGCTAC  
GAGTTTACTATCTTTTACGTTAAGAAACAGAATACTACATAATGAACCCAGAAGTAGAAAAAGAAACAAGGCTGGA  
TCACTGTTGGGGACTTGGAGGCTGTATACATTATAAAGTTGTAAATATGAAAGGATCAAATTTTTTGGTGATTG  
CCTTAAAGAATGCTGTGGAATATATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTAAAGTCTTTTG  
CAGATCTCCAGCACAAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAAGGTTATTTTTGGTT  
CACACACTGGTTTCCATGTAATTGATGTTGATTTCAGGAACTCTTATGATATCTACATACCATCTCATATTTCAGG  
GCAATATCACTCCTCATGCTATTGTCATCTTGCCATAAACAGATGGAATGGAATGCTTGTGTTGCTATGAGGATG

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**FIGURE 1292B**

AGGGGGTGTATGTAAACACCTATGGCCGGATAACTAAGGATGTGGTGCTCCAATGGGGAGAAATGCCCACGTCTG  
TGGCCTACATTCAATCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAAACAGGAC  
ATTTGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAGTTTTCTATGTGAAAGAAATGATAAGGTATTTT  
TTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCCTCAACAGAAATCCATGATGAAGTGGT  
AACAGAAGAGCACTTGGCACTTATCTTCATGGCGTTATTTCTAATTTAAAAGAACATAACTCATGTGGACTTATG  
CCAGTCTAGAGGCAGAAATCAGAAGGCTTGTTGAACATATCGCTTTCCCTTTTCTCTCCCTCCGCCCTCCCA  
GTACAGTCCATCTTTCAATGTTCAGCCTGGTTGAGAAGGAGAGAAAAAGGTGGCAGGAATTTCCAGGAGATCCC  
CAAGAATGCTGCCTTGCTGTGTGGACAAAGATGGACCATGTGCCCTTCGGAATTAGGGATAGAAACAAATATTGTG  
TGCTCTTAACGATTAAGCTGTGTTATGGTGGGTTTTTCAGGTTTTTACCTTTTTTCTTTACCCCTTTACTCTGCAA  
GAATGGGGAAAGAATGCATACTGCGAAAATGAGTCTTTTAAATTCTGTCTGCCTACTAGTTTTAAGTATATGGTA  
TGTTGTAAAATTTCCAATGATGAGAGACAGCACATAAATGTACCTTATCTCCTTAGGCTGAAGGCCATAACTAC  
ATAGTGGAGTAATTTAAGAACTCTCTTGCCCTTCACCAACCCAAAAGGTTGCTTTTTGATAGCAACTGGCTAATGA  
ATTTTAAAAAGAGAAGAAAAATACTAGTTTTCCCTCTTTTGGGAAATAGATTTTAAATGGCTAAACTACTAGC  
CTTAAACTACTAGTCTAATAAAATCAACTACCCTTTTGTGAATCTGACAGGCCACATTTTTATATGGCCCTTT  
ACAGAATGGAGTGTGTTGAACAGGATACTAACGCCATTGAGTTGAGCTGGCCTAGCGATGGAGGGACACTCTAAC  
ACAACCTTTCCCTCAGCTATTATGCAACAGATCAGGGAAGAAAGATGGGATGACAGATGGGGTCAGACAGAAAGAGC  
TTCTGGGAAACAAGCTTACATAGTCTTTTTTAAATGCACAAAGCCTCCCAGCTAAGAGGTCAGTTGGTTTGGGC  
TTCATTAGGACTGAGACTTTGTTGAGTTCTTCTGGGACTTGGAGAGTGGATGATATTCAGGCTCTGAACATTCC  
CAGCGCTCTCCCGAGGGTGCCACTTTCTCAAGATGAAAAGTGTGACTGAAAAAATTAATAATAAATGTTTCTGAG  
CTGCCCTGTGTTCTCCCTGTGTGGGTGAGAGAAGGGACTAGACTCCTAAGCCTGCCTCAGATACAAGAGGCATCAT  
TGGCTCCAATTTTAGAGAACTTGAAAGCAAGGCTTTGGACAAAATTTGAGACCCTAATCACTTTACCTTCCTCC  
AAATTACCCAACATACGGTAAACAACATTTGTGCAGAAGTATGTATGTATTTAGTTTCAGGTTGACTTGTGTCCTT  
ATAAATCTTACTCAAATGATTTGAACCTT



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**FIGURE 1293**

MPHKVANRISDPNLPPrSESFSISGVQPARTPPMLRPVDPQIPHLVAVKSQGPALTASQSVHEQPTKGLSGFQEA  
LNVTSHRVEMPRQNSDPTSENPPLPTRIEKFDRSSWLRQEEDIPPKVPQRTTSSIPALARKNSPGNGSALGPRLG  
SQPIRASNPDLRRTPILESPLOQTSSGSSSSSSSTPSSQPSSQGGSQPGSQAGSSERTVRANSKSEGSFVLPHE  
PAKVKPEESRDITRPSRPASYKKAIDEDLTALAKELRELRIEETNRPMKKVTDYSSSSEESSEEEEEEDGESET  
HDGTVAVSDIPRLIPTGAPGSNEQYNVGMVGTHGLETSHADSFSGSISREGTLMIRETSGEKKRSGHSDSNGFAG  
HINLPDLVQQSHSPAGTPTEGLGRVSTHSQEMDSGTEYGMGSSTKASFTPFVDPRVYQTSPTDEDEDEESSAAA  
LFTSELLRQEQAKLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEILCAALWGVNLLVGTENGLMLLDRSG  
QGKVYNLINRRRFQQMDVLEGLNVLVLTISGKKNKLRVYYLSWLRNRLHNDPEVEKKQGWITVGDLEGCiHYKV  
KYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVEEGQRLKVIFGSHTGFHVIDVDSGNS  
YDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDVLQWGEPTSVAIYHSNQIMGWGEK  
AIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFMTLNRNSMMNW

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**FIGURE 1294**

GGGGGCAAAAAAAGAAGCAAGTTCTGAAGTTCACCTTTGATTGCACCCACCCTGTAGAATCATGGATGCTGCCA  
ATTTTGAGCAGTTTTTGCAGAAAGGATCAAAGTGAACGGAAAAGCTGGGAACCTTGGTGGAGGGGTGGTGACCA  
TCGAAAGGAGCAAGAGCAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAAAGGTATTTGAAATATCTCACCA  
AAAAATATTTGAAGAAGAATAATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTAC  
GTTACTTCCAGATTAAACCAGGACGAAGAAGAGGAGGAAGACGAGGATTAAATTTCAATTTATCTGGAAAATTTGT  
ATGAGTTCTTGAATAAACTTGGGAACCAAATGGTGGTTTATCCTTGTATCTCTGCAGTGTGGATTGAACAGAA  
AATTGGAAATCATAGTCAAAGGGCTTCCCTTGGTTGCCACTCATTATTTGTAAGTTGACTTCT

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**FIGURE 1295**

ATGAAGAGAGTGTCTCAGCAGAGGTCGCCTCCAGAGGAGGTGCTGTGGAGACTGAGCGCATAGCACCCCTTAAATCC  
TGGGACCAGGGCTTCTCCACGGGCTTGCTGAAGAAGGGAGAAAAAGAACAGCAAGAAGCGATTGAACACATTGAT  
GAAGTACAAAATGAAACAGACAGACTTAATGAACAAGCCAGTCCCCCTTACAAAGAAACAGACAGATGATTTAGGT  
GATAATGACGGTGCTGAAGATGAAGATATTCGGGACAGTGGGGGTCCCAAACAGTGATGGTGTATATCCATGGT  
GGCTCATATATGGAAGGTACTGGAAATTTATATGATGGAAGTGTCTTGGCAAGTTATGGCAATGTGATCGTTCATC  
ACAGTCAACTATCGACTTGGAGTACTCGCTCTACATCCGAGTTATGATTCAGGAGCCACTGGGCAGGAAAATGTG  
AGGACACAGAGGAAGCTGACTGAAGCAGGTAGACGAGAAGAGGAAACGGGTTGTGCGACGGCGGGGGTCTGCTGCC  
CGTCTGTCCGTCGGCTTCTCCAGCGGTAAAAGGAGAGCTGATGGAACGTGAATCAAATCGAAGGTGAAGCCACC  
CCAGTTAACCTCACAGAGCCTGCCAAGCTGGAAGTTAAGTTTCTCTGGTCACATAATTATCTGTCAAACACTTAC  
TACATGTCACGCACTAAGGTTGCCATGATGAGCCGGACAGAGCTGGCCTTGGTACTTATGGAGCTCATTCCAGT  
GTGGATACTGACACGTGA

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**FIGURE 1296**

TATTTTGTGATGTGTTGAACCTCGATTAAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT  
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTAAATCTGAGAAGCAGTTTG  
TCAAATTGTAACCTGATTCCGAGCAGGAAAATATCTCCATGGTGAAGGGTTAAATTTGTATTTCGGAGATGGAA  
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGGTTATCAGAAGAATTCTAAC  
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC  
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT  
CCATTGTCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCTGGCCATTATGTGGTACATGGC  
ACTTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC  
AAAGGCGACACTTTTGTGGACTGCACTGGTGTGATATAAATCTCAGGCATAAAATTTGTTTCCAGCATGATGCT  
GTAGAGGGAATCTTAATTGTTACCGTGGTAAGACTACGCTGGAAACTGTGTGCTGCAGTGTGAGACGACCGGA  
GTCACAGTGCGGACATCAGCAGAGTTTCTAATGAAGAACTCGGATTATATGGCGCCAAGGGTGCTGGTATAGAA  
ATCTACCCTGGGAGTCAGTGACCCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC  
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAAATAAGGTTATGGT  
GTTGTCTTGGTGAACCTACAATCTTCTGTGACCTGCAAGAAAATGCTGAAGATGGAACGAAGAAAATAAGCG  
CTTAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT  
GGTAAATGGAGCTTTGTGCAAGAACTGACCCTTCTGAGCAAGTCGAGGGAATTTGTGAAATTGTAAATGAACTA  
ATTGCTGCCTCCACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAAGTGGGATCAGCAAGCTGATGAC  
AACTTAATGTCACAGGAGATGTTTGTGGGATTGTGGGAACCAAGTTCAAGTGAATGGGAAAGGTAGTTTTGGC  
ACATTTCTTTTCTGACTACAGTGATGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAAATCA  
CTGCTGCCATTGTAGTTTGTCTGTATTGTCTGATTTTATATTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA  
TTTCCATTTGCAGGTGTGACATAAAACACTCCCTCTTATAAGAAAATCATAAATGCATATAAAATAGAAAA  
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTAGTAACT  
TTTTAGTGAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAATGCAAGACTAGTGCAATAAAATG  
CAATAGGTGTCTATGTACAGCATTCTTCTTAGAGTTGCCTTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC  
CTGTATTTGCATAAATACTTGCTTTAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA  
TTGAGACGTCAATGGGACGCATTTTTCTGTTGAGCTATGCAGTCGTCAAAACAGCGATAGACAGCATAGGAGGTT  
TGAAGCAGAAATGAAATGTGTTATTTCAGAGCCAATGTTGTACATAGAGCATTTCCTACTATTGCTGAATGGGAATG  
ATTAACAAACAAAGGTATTTTCGGGCCAGGCGGTGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG  
GAGGATCACTTGAGCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT  
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGTGATTGCCACTGCAATTCAGCTTGGGCGACAGAGCGAGAC  
CCAGTCTCAAAAAAAAAAAAAAGTATTTTCTCTTACCCTTACAGTATTCTGATTATATTACTGACACAGTCAAA  
ATGATTAAGTGTACAACCTGTATCTGCTGGGTGTTCTTGTATCATATTGTAAAAACAGCTTTAAAAATATTTATA  
TTTTAAAACTGTATGTGACATTAATATGCCTAATGATTAAATATAGTGATGAAATAACAAAA

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**FIGURE 1297**

GTAGCCATGGCGGCCATGAGTTTGTTCGCGCGGGTTTCGGTTACTGCGGTGGCAGCTCTGTCTGGCCGGCCCCCTT  
GGCACTCGCCTCGGATTTGGGGGCTTCCTCACTCGTGGCTTTCCGAAGGCTGCTGCTCCTGTTTCGACACAGTGGA  
GACCATGGGAAAAGACTATTTGTTCATCAGACCTTCTAGATTCTATGACAGGCGTTTTTTGAAGTTATTGAGATTC  
TACATTGCATTGACTGGGATTCCAGTAGCAATTTTCATAACTCTGGTGAATGTATTCAATGGTCAAGCTGAACTA  
GCAGAAATCCAGAAGGCTATGTCCCAGAACACTGGGAATATTATAAGCATCCCATATCAAGATGGATTGCCCGT  
AATTTCTATGATAGTCCTGAAAAGATATATGAAAGAACAATGGCCGTCCTTCAGATTGAAGCTGAAAAGGCTGAA  
TTACGGGTAAAGGAGCTGGAAGTGCAGAAATTGATGCATGTGAGAGGAGATGGACCCTGGTATTACTATGAGACA  
ATTGACAAGGAACTTATTGATCATTCTCCGAAAGCAACTCCTGACAATTAAGCCTTTTTTCTCCAAATACAAAG  
TATATTCTCTTTATTGGAAAATAAATTAATAAATATATTCTGTATTTTTGCTCTCCGTGAAAACAAAAGAGCCT  
CTGACATTACGTCTCTCAGTGTGGTTTCAGATTGAGGCTTTTGTGTTGAGGAGTTGGCTTCCAGTCCCCAAAGA  
AGGTTTAAATGTACTAATAAAAACTGGAGAAATAGGAATTTGTGAACCCCTAAAATTGTAGCAACTTTGAAAGG  
TTAGTGTTTTATTACCTGACAAATGGAAGTTATAGAAGTCTAATAATGTTAAGCACCAGTAATTATAGTATTTT  
GTACAAATGCCTGTACTGTAGATGTCTGTATTATTGAGGGGCAACTCAGGATTTTAAGTCCATAAAGTATTGAA  
CCAACCTCTAAATGTAACTCCTTAATAAACAGATTCTCAGTAAACAAATTTTAAAGTTAAAAAAAAAAAAAAAA

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**FIGURE 1298**

MAAMSLRRVSVTAVAALSGRPLGTRLGFGGFLTRGFPKAAAPVRHSGDHGKRLFVIRPSRFYDRRFLKLLRFYI  
ALTGIPVAIFITLVNVFIGQAEIAEIPGYVPEHWEYKHPISRWIARNFYDSPEKIYERTMAVLQIEAEKAEIR  
VKELEVRKLMHVRGDGPWYYYETIDKELIDHSPKATPDN

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**FIGURE 1299**

GTTTTGCCAGTTATGCGAAAACATGGCTGCGGCCGGTTTGGCCCTTCTTTGTAGGAGAGTTTCATCCGCCCTGAA  
ATCTTCCCGATCGTTAATAACTCCTCAGGTCCCTGCCTGCACAGGGTTTTTTCTTAGTTTGTTCCTAAGAGTAC  
ACCAAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATTTTT  
TGATGACCCAAAAAACTGGGGCAAGAAAAAGTAAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAACAA  
AAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCTTAGAGCAGGA  
GGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGTAGTAGATTCCATGGATGCATTAGA  
TAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGACCTGGTGCTTG  
GAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGTTATACCTTGGCACCTAAATAAAAG  
ATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAGACTGGAACGTGAGAAACGAGCCCG  
CATCAAAGCACGGAAGGAAAAATTTAGAGAGAAAGAAAGCAAAAATCTTTTAAAAAAGTTCCACATCTTGCTGA  
AGCCCAAAAGTCAAGTCTTGTCTAAGATGTCTGAACTATTAAATTTACCATTTTGTCTTCTGAATAGTCTGTG  
TACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATCTGTTTTTAGTCAAGTGAAGTCTTACTAATCAGTTGTTT  
TAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGCTTCTAAAAATCAGGTATAAAGTTC  
AGATGAGATTCCCACTTTATAAATCTGACATTTAAGCAGGCTTTAAATGTCACCTGCTACCTTAGAGTGTGAAG  
GTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAATAATAGTTTACCTCTGTTGTTAAT  
AGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAAACGGAGGACTTTGATTCAAAATAATGAGAAATACATTTA  
GTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTCTGGAATGGCTAATTTTTATTTAATCTG  
TAAGCCTAAGGTAAGGTAAGCATAGGCAGTAACCTTTACTAGTCAATAAAAAGCAGTTCTACCAATCCACTGGTAAT  
TAATACACTAAACAGAGTTGGAAGCATTCTTACTGAAAGCAAAATATTTAGAGAAAATAGACATTTATACAAAAT  
TATAAATGCTTGTAAATAAGAATAAGTGCATTCAAGGAAAGCACAACCTTAATTTATAGAGCCAGTTAAAGCTT  
TAAAAAATTTAAGTGGAAATGAAATATGCAAAATGTATAAACATTCTACAAAAGATGGTCATTCTTTTCCTGA  
GTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGGGAAGTCTTCTCAAGGGCATTTC  
TTTCTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGGAAATCCACATCCCAACACTTGTGGTGACAACAT  
GACTGACTCCTAACATTGTGTTTCCTGATAACCCCTTTACATTGGAAGGGTCAAATAATCCTTCTGGAATCTTTA  
GCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAACAGTTGGCATCTGTGCAGCCACTT  
GTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCTGGATAACACAATTACACATATAAT  
TGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTGCTGGAGATCCTTCACGAACAGCTT  
CTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCATTTCTTGGAAGAGTTCTCTGCACTGCATAGTAA  
TAAAGTCTCCAGCAAGAGGGGATTTACAATGCCTTGTTGAAGGACATAGCCATCGTGGACTGGAATTGCAGTGG  
TATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAAATGCTGTCAAAACTGCAGTTTTGC  
AAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAACATTAACCTGTGTCAGTTTCTCTCTCTTTGCTCTAGTATTCC  
ACGGTGCCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACATGCATTTTGTAGGTATGATCCAAAA  
TAGCTTGGAAACTATCCCAGTCTTCAACCATCCCATTTTTTAGAGGTGAAATGGCCTCCATATTCTCCCTCGGAA  
CACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCTTGTGCTTTATCGCCATCTATTTCCATTAATG  
TGCTTCCGTCTCTCTTTCTACCACCATACCAATAGCTGTAGGAAAATCCACCTTGGGGCAGTCTCACCAGCAT  
AACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGCTCCAACCTTACCTCCCCCGTACACGCCGCCGC  
TCATGGCTGCTGCCGGCGCGACTCCTACCCTAAGGGCTAAGTGGCGAAGTACTGCAGTGGCCGCGACTGCGAGT  
CTCGAGGAGCGATAGCCCTGACTCCCTTAACCTTCCACCGCCACCCACCTCAGGCAACAAAGCGG

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**FIGURE 1300**

CCGCTTTGTTGCCTGAGGTGGGTGGCGGTGGAAGTTAAGGGAGTCAGGGGCTATCGCTCCTCGAGACTCGCAGTC  
GCGGCCACTGCAGTCACTTCGCCAGTTAGCCCTTAGGGTAGGAGTCGCGCCGGCAGCAGCCATGAGCGGCGGCGT  
GTACGGGGGAGATGAAGTTGGAGCCCTTGTTTTTGACATTGGATCCTATACTGTGAGAGCTGGTTATGCTGGTGA  
GGACTGCCCCAAGGTGGATTTTCCTACAGCTATTGGTATGGTGGTAGAAAGAGATGACGGAAGCACATTAATGGA  
AATAGATGGCGATAAAGGCAAACAAGGCGGTCCCACCTACTACATAGATACTAATGCTCTGCGTGTTCCGAGGGA  
GAATATGGAGGCCATTTACCTCTAAAAATGGGATGGTTGAAGACTGGGATAGTTTCCAAGCTATTTTGGATCA  
TACCTACAAAATGCATGTCAAATCAGAAGCCAGTCTCCATCCTGTTCTCATGTGAGAGGCACCGTGGAATACTAG  
AGCAAAGAGAGAGAACTGACAGAGTTAATGTTTGAACACTACAACATCCCTGCCTTCTTCCTTTGCAAACTGC  
AGTTTTGACAGCATTGCTAATGGTCGTTCTACTGGGCTGATTTTGGACAGTGGAGCCACTCATACCACTGCAAT  
TCCAGTCCACGATGGCTATGTCTTCAACAAGGCATTGTGAAATCCCCTCTTGCTGGAGACTTTATTACTATGCA  
GTGCAGAGAACTCTTCCAAGAAATGAATATTGAATTGGTTCCCTCCATATATGATTGCATCAAAAGAAGCTGTTCCG  
TGAAGGATCTCCAGCAAACCTGGAAAAGAAAAGAGAAGTTGCCTCAGGTTACGAGGTCTTGGCACAATTATATGTG  
TAATTGTGTTATCCAGGATTTTCAAGCTTCGGTACTTCAAGTGTGAGATTCAACTTATGATGAACAAGTGGCTGC  
ACAGATGCCAACTGTTCAATTATGAATCCCCAATGGCTACAATTGTGATTTTGGTGCAGAGCGGCTAAAGATTCC  
AGAAGGATTATTTGACCCCTCCAATGTAAAGGGGTTATCAGGAAACACAATGTAGGAGTCAGTCATGTTGTCAC  
CACAAGTGTGGGATGTGTGATATTGACATCAGACCAGGTCTCTATGGCAGTGTAAATAGTGGCAGGAGGAAACAC  
ACTAATACAGAGTTTACTGACAGGTTGAATAGAGAGCTGTCTCAGAAAACCTCCAAGTATGCGGTTGAAATT  
GATTGCAAATAATACACAGTGGAACGGAGGTTTAGCTCATGGATTGGCGGCTCCATTCTAGCCTCTTTGGGTAC  
CTTTCAACAGATGTGGATTTCCAAGCAAGAATATGAAGAAGGAGGGAAGCAGTGTGTAGAAAGAAAATGCCCTTG  
AGAAAGAGTTCCCAAGCTTCTACCTTCCTTTGTGACCTTACGTTTCATAGCTTTAGTATACTCAGGAAAAGAAT  
GACCATCTTTTGTAGAAATGTTTATACATTTTGCATATTTCAATTTCCACTTAAATTTTTTAAAGCTTTAACTGG  
CTCTATAAATTAAGTTTGTGCTTTTCTTGAATGCATTTATTCTTATTACAAGCATTTTATAATTTTGTATAAAT  
GTCTATTTTCTCTAAATATTTTGCTTTTCAGTAAATGCTTTCCAACCTCTGTTTAGTGTATTAAATACCAGTGGAT  
TGGTAGAACTGCTTTTTATTGACTAGTAAAGTTACTGCCTATGCTTTTTACCTTAGGCTTACAGAATTAAATAA  
AAATTAGCCATTCCAGAAATAT



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**FIGURE 1301**

MSGGVYGGDEVGALVFDIGSYTVRAGYAGEDCPKVDFFPTAIGMVVERDDGSTLMEIDGDKGKQGGPTYIDTNAL  
RVPRENMEAISPLKNGMVEDWDSFQAILDHTYKMHVKSEASLHPVLMSEAPWNTRAKREKLTLMFEHYNIPAFF  
LCKTAVLTAFANGRSTGLILDGATHHTAIPVHDGYVLQOGIVKSPLAGDFITMQCRELFQEMNIELVPPYMIAS  
KEAVREGSPANWKRKEKLPQVTRSWHNYMCNCVIQDFQASVLQVSDSTYDEQVAAQMPTVHYEFPNGYNCDFGAE  
RLKIPEGLFDPSNVKGLSGNTMLGVSHVTTSVGMCIDIRPGLYGSVIVAGGNTLIQSFTDRLNRELSQKTPPS  
MRLKLIANNTTVERRFSSWIGGSILASLGTFFQMWISKQEYEEGGKQCVERKCP

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## FIGURE 1302A

AGAGTACGTGTTTACAGATAAACTGGTACACTGACAGAAAATGAGATGCAGTTTCGGGAATGTTCAATTAATGG  
CATGAAATACCAAGAAATTAATGGTAGACTTGTACCCGAAGGACCAACACCAGACTCTTCAGAAGGAACTTATC  
TTATCTTAGTAGTTTATCCCATCTTAACAACCTTATCCCATCTTACAACCAGTTCCTCTTTCAGAACCAGTCTCGA  
AAATGAAACTGAACTAATTAAGAACATGATCTCTTCTTAAAGCAGTCAGTCTCTGTACACTGTACAGATTAG  
CAATGTTCAAACCTGACTGCACTGGTGATGGTCCCTGGCAATCCAACCTGGCACCATCGCAGTTGGAGTACTATGC  
ATCTTCACCAGATGAAAAGGCTCTAGTAGAAGCTGCTGCAAGGATTGGTATTGTGTTTATTGGCAATTCTGAAGA  
AACTATGGAGGTTAAACTCTTGGAAACTGGAACGGTACAAACTGCTTCATATTCTGGAATTGATTAGATCG  
TAGGAGAATGAGTGTAATTGTTTCAGGCACCTTCAGGTGAGAAGTTATTATTGCTAAAGGAGCTGAGTCATCAAT  
TCTCCCTAAATGTATAGGTGGAGAAATAGAAAAAACAGAAATTCATGTAGATGAATTGCTTTGAAAGGGCTAAG  
AACTCTGTGTATAGCATATAGAAATTTACATCAAAAGAGTATGAGGAAATAGATAAACGCATATTTGAAGCCAG  
GACTGCCTTGCAGCAGCGGGAAGAGAAATTGGCAGCTGTTTTCCAGTTCATAGAGAAAGACCTGATATTACTTGG  
AGCCACAGCAGTAGAAGACAGACTACAAGATAAAGTTCGAGAACTATTGAAGCATTGAGAATGGCTGGTATCAA  
AGTATGGGTACTTACTGGGGATAAACATGAAACAGCTGTTAGTGTGAGTTTATCATGTGGCCATTTTCATAGAAC  
CATGAACATCCTTGAACCTATAAACCAGAAATCAGACAGCGAGTGTGCTGAACAATTGAGGCAGCTTGCCAGAAG  
AATTACAGAGGATCATGTGATTACAGCATGGGCTGGTAGTGGATGGGACCAGCCTATCTCTGCACTCAGGGAGCA  
TGAAAAACTATTTATGGAAGTTTGCAGAAATTGTTACAGTGTATTATGCTGTCGTATGGCTCCACTGCAGAAAGC  
AAAAGTAATAAGACTAATAAAATATCACCTGAGAAACCTATAACATTGGCTGTTGGTGATGGTGCTAATGACGT  
AAGCATGATACAAGAAGCCCATGTTGGCATAGGAATCATGGGTAAAGAAGGAAGACAGGCTGCAAGAAACAGTGA  
CTATGCAATAGCCAGATTTAAGTTCCTCTCCAAATTGCTTTTTGTTTCATGGTCATTTTTATTATATTAGAATAGC  
TACCCTTGACAGTATTTTTTTTATAAGAATGTGTGCTTTATCACACCCAGTTTTTATATCAGTTCTACTGTTT  
GTTTTCTCAGCAAACATTGTATGACAGCGTGTACCTGACTTTATACAATATTGTTTTACTTCCCTACCTATTTCT  
GATATATAGTCTTTTGGAACAGCATGTAGACCCTCATGTGTTACAAAATAAGCCACCCCTTTATCGAGACATTAG  
TAAAAACCGCCTCTTAAGTATTAAACATTTCTTTATTGGACCATCCTGGGCTTCAGTCATGCCTTTATTCTT  
TTTTGGATCCTATTTACTAATAGGGAAGATACATCTCTGCTTGGAAATGGCCAGATGTTTGGAACTGGACATT  
TGGCACTTTGGTCTTCACAGTCATGGTTATTACAGTCACAGTAAAGATGGCTCTGGAAACTCATTTTTGGACTTG  
GATCAACCATCTCGTTACCTGGGGATCTATTATTTTTATTTGTATTTTCTTGTATTTATGGAGGATTCTCTG  
GCCATTTTTGGGCTCCAGAAATATGTATTTGTGTTTATTCAGCTCCTGTCAAGTGGTTCTGTGTTGGTTTGGCAT  
AATCCTCATGGTTGTTACATGTCTATTTCTTGATATCATAAAGAAGGTCTTTGACCGACACCTCCACCCTACAAG  
TACTGAAAAGGCACAGCTTACTGAAACAAATGCAGGATCAAGTGCTTGGACTCCATGTGCTGTTTCCCGGAAGG  
AGAAGCAGCGTGTGCATCTGTTGGAAGAATGCTGGAACGAGTTATAGGAAGATGTAGTCCAACCCACATCAGCAG  
ATCATGGAGTGCATCGGATCCTTTCTATACCAACGACAGGAGCATCTTGACTCTCTCCACAATGGACTCATCTAC  
TTGTTAAAGGGGCAGTAGTACTTTGTGGGAGCCAGTTCACTTCTTCTTAAATTCAGTGTGATCACCTGTTA  
ATGGCCACACTAGCTCTGAAATTAATTTCCAAAATCTTTGTAGTAGTTCATACCCACTCAGAGTTATAATGGCAA  
ACAAACAGAAAGCATTAGTACAAGCCCTCCCAACACCCCTTAATTTGAATCTGAACATGTTAAAAATTGAGAATA  
AAGAGACATTTTTATCTCTTTGTCTGGTTTGTCCCTTGTGCTTATGGGACTCCTAATGGCATTTCAGTCTGTTG  
CTGAGGCCATTATATTTAATATAAATGTAGAAAAAGAGAGAAATCTTAGTAAAGAGTATTTTTTAGTATTAGC  
TTGATTATTGACTCTTCTATTTAAATCTGCTTCTGTAAATTATGCTGAAAGTTTGCCTTGAGAACTCTATTTTTT  
TATTAGAGTTATATTTAAAGCTTTTTCATGGGAAAAGTTAATGTGAATACTGAGGAATTTTGGTCCCTCAGTGACC  
TGTGTTGTTAATTCATTAATGCATTCTGAGTTCACAGAGCAAATAGGAGAATCATTTCCAACCATTATTTACTG  
CAGTATGGGGAGTAAATTTATACCAATTCCTCTAACTGTACTGTAAACACAGCCTGTAAAGTTAGCCATATAAATG  
CAAGGGTATATCATATATACAAATCAGGAATCAGGTCCGTTACCGAACTTCAAATGATGTTTACTAATATTTT  
TGTGACAGAGTATAAAGACCCCTATAGTGGGTAAATTAGATACTATTAGCATATTATTAATTTAATGTCTTTATCA  
TTGGATCTTTTGCATGCTTTAATCTGGTTAAACATATTTAAATTTGCTTTTTTCTCTTTACCTGAAGGCTCTGTG  
TATAGTATTTTCATGACATCGTTGTACAGTTTAACTATATCAATAAAAAGTTTGGACAGTATTTAAATATTGCAA  
TATGTTTAAATTATACAAATCAGAATAGTATGGGTAATTAATGAATACAAAAAGAAGAGCCTCTTCTGCAGCCG  
ACTTAGACATGCTCTTCCCTTTCTATAAGCTAGATTTTGAATAAAGGGTTTCACTTAATAATCTTATTTTCAGG  
TTATGTCATCTAACTTATAGCAAACTACCACAATACAGTGAGTTCTGCCAGTGTCAGTACAAGGCATATTTCA  
GGTGTGGCTGTGGAATGTAAAAATGCTCAACTTGTATCAGGTAATGTTAGCAATAAATTAATGCTAAGAATGAT

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**FIGURE 1302B**

TAATCGGGTACATGTTACTGTAATTAACCTCATTGCACTTCAAAACCTAAGCTTCCATCCTGAATTTATCAAGTAGT  
TCAGTATTGTCAATTTGTTTTGTTTTATTGAAAAGTAATGTTGTCTTAAGATTAGAAAGTGATTATTAGCTTGAG  
AACTATTACCCAGCTCTAAGCAAATAATGATTGTATACATATTAAGATAATGGTTAAATGCGGTTTTACCAAGTT  
TTCCCTTGAAAATGIAATTCCTTTATGGAGATTTATTGTCAGCCCTAAGCTTCCTTCCATTTCATGAATATAA  
GGCTTCTAGAATTGGACTGGCAGGGGAAAGAATGGTAGAGACAGAAATTAAGACTTTATCCTTGTTGCTTGTA  
ACTATTATTTTCTTGCTAATGTAACATTTGTCTGTTCCAGTGATGTAAGGATATTAAGTTATTAAGCTAAATATT  
AATTTTCAAAAATAGTCCTTCTTTAACTTAGATATTTTCATAGCTGGATTTAGGAAGATCTGTTATTCTGGAAGTA  
CTAAAAAGAATAATACAACGTACAATGTCTGCATTCACTAATTCATGTTCCAGAAGAGGAAATTAATGAAGATATA  
CTCAGTAGAGTACTAGGTGGGAGGATATGGAAATTTGCTCATAAAATCTCTTATAAAACGTGCATATAACAAAAT  
GACACCCAGTAGGCCTGCATTACATTTACATGACCGTGTATTGTCATCAAATAAAGTACTGACTGACACCCAG  
ACAAAGACTCCAAAGTCATAAAATAGCCTATGACCAACTGCAGCAAGACAGGAGGTGAGCTCGCCTATAATGGTG  
CTTAAAGTGTGATTGATGTAATTTTCTGTACTCACCATTGAAGTTAGTTAAGGAGAACTTTATTTTTTAAAAA  
AAGTAAATGGCAACCACTAGTGTGCTCATCCTGAAGTGTACTCCAAATCCACTCCGTTTTTAAAGCAAAATTAT  
CTTGATGATTTTAAAGAAAAGAGTTTTCTATTTATTTAAGAAAAGTAACAATGCAGTCTGCAAGCTTTCAGTAGTTTT  
CTAGTGCTATATTATCCTGTAAAACCTTACTACGTAACCAAGTAATCACAAGGAAAGTGTCCCTTTGCATATT  
TCTTTAAAATTTCTTTTGGAAAGTATGATGTTGATAATTAAGTACCCTTATCTGCCAAAACCAAGAGCAAAAT  
GCTAAATACGTTATTGCTAATCAGTGGTCTCAAATCGATTTGCCTCCCTTTGCCTCGTCTGAGGGCTGTAAGCCT  
GAAGATAGTGGCAAGCACCAAGTCAGTTTCCAAAATTGCCCTCAGCTGCTTTAAGTGAAGTACGACCCCTGCCTC  
AGCTTCAGCAGGCGTAGGCTCACCTGGGCGGAGCAAAGTATGGGCCAGGGAGAACTACAGCTACGAAGACCTGC  
TGTCGAGTTGAGAAAAGGGGAGAATTTATGGTCTGAATTTTCTAACTGTCTCTTTCTTGCGTCTAAAGCTCATA  
ATACACAAAGGCTTCCAGACCTGAGCCACACCCAGGCCCTATCCTGAACAGGAGACTAAACAGAGGCAAAATCAAC  
CCTAGGAAATACTTGCATTCTGCCCTACGGTTAGTACCAGGACTGAGGTCAATTTCTACTGGAAAAGATTGTGAGA  
TTGAACTTATCTGATCGCTTGAGACTCCTAATAGGCAGGAGTCAAGGCCACTAGAAAATTGACAGTTAAGAGCCA  
AAAGTTTTTAAATATGCTACTCTGAAAAATCTCGTGAAGGCTGTAGGAAAAGGGAGAATCTTCCATGTTGGTGT  
TTTTCTGTAAAGATCAGTTTGGGGTATGATATAAGCAGGTATTAATAAAAATAACACACCAAAGAGTTACGTAA  
AACATGTTTTATTAATTTTGGTCCCCACGTACAGACATTTTATTTCTATTTTGAATGAGTTATCTATTTTCATA  
AAAGTAAAACACTATTAAGTGTCTGTTTTATGTGAAATAACTTGAATGTTGTTCTATAAAAAATAGATCATAAC  
TCATGATATGTTTGTAATCATGGTAATTTAGATTTTTATGAGGAATGAGTATCTGGAAATATTGTAGCAATACTT  
GGTTTTAAATTTTGGACCTGAGACACTGTGGCTGTCTAATGTAATCCTTTAAAATTTCTCTGCATTGTGAGTAA  
TGATGATATATTATTGTACAGCTACTCATAATTTTTTAAAGTTTATGAAGTTATATTATCAATAAAAACTTTCC  
TATAT

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**FIGURE 1303**

MQFRECSINGMKYQEINGRLVPEGPTPDSSEGNLSYLSSLSHLNNLSHLTTSSSFRTSPENETELIKEHDLFFKA  
VSLCHTVQISNVQTDCTGDGPWQSNLAPSQLEY YASSPDEKALVEAAARIGIVFIGNSEETMEVKTLGKLERYKL  
LHILEFDSRRRMSVIVQAPSGEKLLFAKGAESSILPKCIGGEIEKTRIHVDEFALKGLRTL CIA YRKFTSKEYE  
EIDKRIFEARTALQQREEKLA AVFQFIEKDLILLGATAVEDRLQDKVRETIEALRMAGIKVWVLTGDKHETAVSV  
SLSCGHFHRTMNILELINQKSDSECAEQLRQLARRITEDHV IQHGLVVDGTSLSLALREHEKLFMEVCRNCSAVL  
CCRMAPLQKAKVIRLIKISPEKPITLAVGDGANDVSMIQEAHVIGIGIMGKEGRQAARNSDYAIARFKFLSKLLFV  
HGHFYIIRIATLVQYFFYKNVCFITPQFLYQFYCLFSQQTLYDSVYLTLYNICFTSLPILIIYSLLEQHVDPHVLQ  
NKPTLYRDISKNRLLSIKTFLYWTILGF SHAFIFFFGSYLLIGKDTSL LGNGQMFGNWTFGTLVFTVMVITVTVK  
MALETHFWTWINHLVTWGSIIIFYFVFSLFYGGILWPFLGSQNMIFVFIQLLSSGSAWF AII LMVVTCLFLDIKK  
VFDRHLHPTSTEK AQLTETNAGIKCLDSMCCFPEGEAACASVGRMLERVI GRCSPTHISRSWSASDPFYTNDRSI  
LTLSTMDSSSTC

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**FIGURE 1304**

TTTAGCAGTCTGTGATGATCAGCAAAAAAGCACATAAAGTAAAAATTAGTTGACCATGCTAAAATTCAATTCTGGA  
ATTTTTTTTTTATTTGGGCATTTCTAGAACTTTTTACATTTGAAAGTACATGATGAGTATTAGTAACGATGACTTA  
TGTATAATCAGAATCTTTATGACAACTTAGTTTTACAAGGTCAGAAGAGATGAGTTTGCTAAACCCAGCTGTGAT  
ACCTCAGTTGGAAAGGGAATTCAAAGGTATGCTTTGTAGAACAGAAAAGTATAGTTTTTTTTTTCATGAACTTTAA  
TCATTTTCTGTTTTTCTCTATGTGAGTCAGCTACAAAAGTGGTCTAATTTTTACAACAGTAGAACTTCCTCCTT  
TTCTACTGTAATCTTCCCACTGACTTTACTGCACAGGTATGAAATACTAGTGTATTGGATCTTCAGTAACCTTTT  
TATTTCCCTAGATGATTGAAATATAGGTATTTACTCCATTTAAACCAGGTGATAAGATGATGTAATACTCAGGGA  
GGGTATTAACCTGTTACTTTTGCTCGTTTGGGGGTGTAAAGTGCCATGACTGAATAATCTTCAATTCATGATTCTA  
GAGTAAGTTTAAATTTGGAAAAAGGGGCTTCACACATGGTGGTGGTTGAACATTGATTCTTTTATACTTAAAAAGA  
TGAAATGTTTTGTGGACTGATACATTTTATCTTACTGAATATGAATTGTTTATGTATCTCTACTGTCAAATAGC  
CTTTTTGAAACTCAGGAAAGACAAAGGTTCAATTACCCACTTTTGTCAATAAGCAAACCAGGTATTTTTTTTTT  
CTCTGTTGTCTGGATATGGCAATAGATTTTTTAAATGCTGTGAGAACCATATATGAAAAGAGAGGAGTTGAA  
TTGTGTGTGCCTTTTATGTCTTGAGATTTATATGTGGAAAAGACGACATCTACTTCAAACGTATTTTTTTCGTT  
TTTTTTTTTTTTTGGGGAAGGGGGGAGAACGGGGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCGATCT  
CAGTGACTGCAACCTCCACCTCCCGGGTTCAAGGGATTCTGCCTCAGCCTCCCGAGTAGCTGAGACCACAGGTG  
CGTGCCACCACACCCGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGTTTAGTAGAGACGGATCACTCCTGAC  
CACGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACCCCGGCTGTATTTT  
CAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGGAAGATAATGTCTCTTTGAGGCTTCCTATGGACTGCC  
TTTATTTTAGTAACTCAAGACACCAGTTAACCTCAACAGAGTTTTGGCCTTATTAGAATTTGTGTGCATCTTA  
TTGAAAGCCAGGTTTACATCACCTCACCCATTATTCTTTTAGTTAAATAAATTTACCATGCCAAGTAACCAGA  
ATGGAGCAAATTTGGTTGATCTTTAAGGCAGTAGGTTTACTAGCTAGCTATCATTATTGTCACATCTAATGCTAG  
GCACCAGAAACATTTGAGCCAGGAGTGTGAATGAATAATTCAGAGACACTTAGACATTTTTTAATGTTTTAT  
ATGAACATTTTACATTTGTGTGATTGCCCTAGATATTAATTTTCTAGTGCTGATAAAAACAGCAACATTCATA  
ACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTAATGGTTTCAAATAACTGCACCTGAATTTGTTTA  
TGTGCCCTTAAGTTCTCTAGTGCTATTTCAACTTTTTTTCAATCTAAATGAAGCTTACCTTAGATAAGGTTTATA  
TTGTTTCCCTATAGAGTAAATAAACTTCCCCTTCTTAAATGTGTGAATAAGCACCAACGTGTGGTTGCTTGGCAG  
AATGAGAATGTTAAGGGAGATTGTTGGATGTTGGAGTTTCAATTATTTTTTGTTTTTATTTTTTGATACCTAG  
GTGCTTTTTAAATATTCAGACAAATATCTATCTTACATTGATTAAACCCGTGTAAATTCATTTGCAGTATCTAC  
ATCGAATGTCAAAAAGTATACTTATTTTTGTTCCATACTTATGTACAATTTTTTCCCTCTTCAGGCTTTTTTCAT  
TTACCTTTTTGAAAAGCACTTACTCTCCCCTTCCCTATCACCCCTCCCCAAGGTTTCTTTATTTAAATTTTTTA  
TTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGTTGAACAAAAGTATAATCTGCTTTACAACAGTAT  
AGACCTAAGGTCAATTTGCTTTCAATTAGAGGCTCCAGAGTCTTCATAGTGGAAGAATGCTTTGTATTTAATTGT  
TCTTAGTTAAGTTGTAGCAGTGAATACTTACTTACATGTTTTGTTTAAATATACTTCTTGCAATAGTTTAAATTT  
TAAAAGTTGTATCTAATAAAATGTCTTTTAACCATTATTACTTGACTATATGGTTGTATTAAATTTTGTTTACG

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**FIGURE 1305**

MYLYCQIAFLKLRKDKGSITPLLSISKPGIFFFSCCLDMAIDFLNCCENPYMKREELNCVCLLCLEIYMWKRRHL  
LQTVFFSFFFFFFGEGGRIGSCSVAQAGVQWRDLS

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**FIGURE 1306**

GTCTGGAATCAAGCGAACCATCAAAGAAACCGACCCTGATTACGAGGATGTATCTGTGGCCCTTCCAAATAAGCG  
GCATAAAGCAATTGAGAATTGAGCTCGAGATGCTGCTGTGCAGAAAGATTGAGACTATTATCAAAGAACAGTTTGC  
TCTTGAAATGAAGAATAAGGAACATGAAATTGAAGTCATTGACCAGCGACTGATTGAAGCAAGAAGGATGATGGA  
TAAACTGCGTGCCIGCATTGTAGCAAACACTATGCTTCTGCAGGTCTTCTAAAAGTTTCTGAGGGATCAAAGAC  
ATGTGATACGATGGTTTTTAATCATCCTGCTATCAAGAAATTTTGGAAATCACCATCTAGGTCATCATCTCCTGC  
CAATCAGAGAGCAGAAACACCATCAGCCAAATCATTAGAAAGTGATTCTTTATCTCAGCACAAATGACTTCTTATC  
TGACAAAGATAATAACAGCAATATGGATATAGAGGAAAGACTCTCAAACAACATGGAGCAGAGACCAAGCCGAAA  
TACTGGAAGGGATACTTCTAGAATTACTGGCTCCCATAAAACAGAACAGCGGAATGCTGATCTCAGAGATGAGAC  
TTCACGACTTTTTGTAAAGAAAACAATAGTAGTGGGCAATGTGTCCAAGTATATACCTCCGGATAAGAGGGAAGA  
AAATGACCAGTCAACTCATAAGTGGATGGTATATGTCCGAGGGTCCCGTAGAGAACCCAGCATTAAATCATTTTGT  
CAAGAAGGTTTGGTTCTTCCCTTCATCCTAGCTATAAACCAAATGACCTTGTGGAAGTTAGAGAGCCTCCTTTTCA  
CCTGACCAGAAGAGGCTGGGGTGAGTTTCCCGTCAGAGTTCAAGTTTCATTTTAAGGACAGCCAGCTCAAACCACT  
CAGCGTAAACACATCTGGAGGGGTGCAGACGATCCTGATGCCTGTGAATAAAGTGGTTCAGTCATTTTCTACCAG  
CAAGCCACCTGCCATTCTGCCTGTAGCTGCCCCAACTCCAGTTGTCCCCAGCTCTGCTCCAGCAGCTGTTGCAAA  
AGTGAAGACTGAACCAGAAACACCTGGACCGAGTTGCCTCTCTCAGGAGGGTCAGACAGCAGTGAACACAGAAGA  
AAGTTCTGAGCTGGGAACTATGTCAATTAAGATAGACCATTAGAAACTATCCAGCAACTCCTAACTTAGTAAAG  
AAGATTCCATTAATCACTGCAAAAAGTGAAGATGCCAGCTGCTTTTCTGCAAAGTCTGTGGAGCAGTACTATGGC  
TGGAACATTGGAAAAAGGAGAGCCGCTGAGTGGCAAAGAGCAATGACAATGCGAAAAGTCTTACAAGAAATCCTG  
GAGAAGAATCCGAGATTTACACACCTGACTCCCTCAAACCAAGCACATCGCTCACTGGTGCCGCTGTCAATGGC  
TACACCCACCGGACCCTGAGAGCCTGAGGAATGACGGGGACTCCATCGAGGACGTGCTGACCCAGATCGACAGC  
GAGCCCGAGTGCCCATCATCTCTCTGCTGACAACCTCTGCCGCAAAGTGGAGACCTGCAACAGTTCCAG  
CCCTGGTGACAGAGGAGACCCGCTCTCAAAAATTGATTGATCAATTCAGCATCTGAGGGCTGCAAGTACAGAAGG  
AATCTATTCTCAGCAGGGCATAGGGCACGCACTGGCTTAACAGTTTAGTATATAAGGCTCAAATAGTCTATACCT  
GAACTGCTATAAGCAAGGTCGATAGGGAAGTGGATAGATTGCTTCAGCAAAGTGAAGTGTGAGATCTCCAGGACA  
GAGGGAGAAAGATCTGATCCAAATGAGAACAGATTGGTTATTGCAGGTATCACAGCCTAAAGAAATATCTTTTT  
GCAAAAGAAATATTAAATGATTTAGCAGTCTCCACGTGTGTTAATGTTTCAAACGTGTATCATAATGTGTATAAT  
TGTGTAACAAAATTGCTACAATAAATCTTTTGGTATTTGT

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**FIGURE 1307**

MKNKEHEIEVIDQRLIEARRMMDKLRACIVANYYASAGLLKVSEGSKTCDTMVFNHPAIKKFLESPTSRS SSPANQ  
RAETPSANHSESDSLSQHNDFLSDKDNNSNMDIEERLSNNMEQRPSRNTGRDTSRITGSHKTEQRNADLTDETSR  
LFVKKTIIVVGNVSKYIPDPKREENDQSTHKWMVYVRGSRREPSINHFVKKVWFFLHPSYKPNDLVEVREPPFHLT  
RRGWGEFPVRVQVHFKDSQLKPLSVNTSGGVQTIILMPVNKVVSFSTSKPPAILPVAAPTVPVPSSAPAAVAKVK  
TEPETPGPSCLSQEGQTAVKTEESSELGNYVIKIDHLETIQQLLT



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**FIGURE 1308**

ATGTCTAGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTG CAGCAGGAACCCACTTA  
GGTGGTACCAACCTTGACTTCCAAATGGACAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGA  
GCCACTCAAATTGTTGGCCGCTTCACTCCTGGAACCTTCACTAGCCAGACCCAGGCAGCCTTCAGGGAGCCACGG  
CTTCTAGTGGTTACTGATCCCAGGGCTGACCACCAGCCTCTCACAGAGACATCTTATGTTAACCTACCTACCATT  
GCTCTATGTCACACAGATTTTCCTCTGCGCTATGTGGACATTGCCATCACATGCAACAACAAGGGAGCTCCCTCA  
GTGGGTCCGAGCTGGTGGATGCTGGCCCTGGAAGTTCTGCGCGTGTGTGGCACCATTTCCTCGAACACCCATGG  
GAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAGGAGCAGGTTGCTGCTGAAAAG  
ACTGTGACCAAGGAGGAATTT CAGGGCAAATGGACTGCTCCAGCTCCTGAGTTCACCGCTATTCAGCCTGAGGTT  
GGAGACTGGTCTGATGGTGTACAGGTGCCCTCTGTGCCTATTCATCAGGTCCCTACTGAAGACTGGAGTGCTCAG  
CCTGCCACAGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGAAACAACCACTGAATGGTCT  
TAA

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**FIGURE 1309**

MSRALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMDNTGQRAVLKFAAATGATQIVGRFTPGTFTSQTQAAFREPR  
LLVVTDPRADHQPLTETSYVNLPTIALCHTDFPLRYVDIAITCNNKGAPSVGPSWWMLEVLRVCGTISLEHPW  
EVMPDLYFYRDPEEIGKEEQVAAEKTVTKEEFQGKWTAPAPEFTAIQPEVGDWSDGVQVPSVPIHQVPTEDWSAQ  
PATEDWSAAPTAAQATEWVETTEWS

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**FIGURE 1310**

TGCGTGCGGTGGCAGCTTCCTTGCGGAAGTGGTGACCGTGAGAGAAGAAGATGCGCGCCCTGTAGTGGCGCCGC  
CTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGCGGCGCGGGCCGGGAGGCAGCGGTGGCGGGGGAGCCAGAG  
GGGCGGAGGAGGAACCGCCGCGCCCTACAAGCAGTTCTGGTGGCCGATAGCTTCGATCGCCGCTTCTTCCCCA  
TCTCCAAGGACCAGCCTCGGGTCTTCTGCCCCCTGGCCAATGTGGCATTAAATTGACTACACTCTGGAATTCCTGA  
CTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGCTGGAAAGCTGCTCAAATCAAAGAACATTTACTGAAGT  
CAAAGTGGTGGCGCCCTACATCTCTCAATGTGGTTCGAATAATTACATCAGAGCTCTATCGATCACTGGGAGATG  
TCCTCCGTGATGTTGATGCCAAGGCTTTGGTGCGCTCTGACTTTCTTCTGGTGTATGGGGATGTCATCTCAAACA  
TCAATATCACCAGAGCCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTGATGACGATGA  
TCTTCAAGGAGTCATCCCCAGCCACCCAACTCGTTGCCACGAAGACAATGTGGTAGTGGCTGTGGATAGTACCA  
CAAACAGGGTTCTCCATTTTCAAGAACCCAGGGTCTCCGGCGTTTTCATTCTCTGAGCCTGTTTCAGGGCA  
GTAGTGATGGAGTGGAGGTTTCGATATGATTACTGGATTGTCATATCAGCATCTGTTCTCCTCAGGTGGCACAAC  
TCTTTACAGACAACTTTGACTACCAAACTCGAGATGACTTTGTGCGAGGTCTCTTAGTGAATGAGGAGATCCTAG  
GGAACCAGATCCACATGACAGTAACAGCTAAGGAATATGGTGCCCGTGTCTCCAACCTACACATGTACTCAGCTG  
TCTGTGCTGACGTATCCGCCGATGGGTCTACCCCTCTACCCCGAGGGCGAACTTCACTGACAGCACCACCCAGA  
GCTGCACTCATTCCCGGCACAACATCTACCGAGGGCCTGAGGTCAGCCTGGGCCATGGCAGCATCCTAGAGGAAA  
ATGTGCTCCTGGGCTCTGGCACTGTCTATTGGCAGCAATTGCTTTATCACCAACAGTGTCTATTGGCCCCGGCTGCC  
ACATTGGTGATAACGTGGTGCTGGACCAGACCTACCTGTGGCAGGGTGTTTCGAGTGGCGGCTGGAGCACAGATCC  
ATCAGTCTCTGCTTTGTGACAATGCTGAGGTCAAGGAACGAGTGACACTGAAACCACGCTCTGTCTCTCACTTCCC  
AGGTGGTGGTGGGCCCAATATCACGCTGCCTGAGGGCTCGGTGATCTCTTTGCACCCTCCAGATGCAGAGGAAG  
ATGAAGATGATGGCGAGTTCAGTGATGATTCTGGGGCTGACCAAGAAAAGGACAAAGTGAAGATGAAAGGTTACA  
ATCCAGCAGAAGTAGGAGCTGCTGGCAAGGGCTACCTCTGGAAAGCTGCAGGCATGAACATGGAGGAAGAGGAGG  
AACTGCAGCAGAATCTGTGGGGACTCAAGATCAACATGGAAGAAGAGAGTGAAAGTGAAAGTGAGCAAAGTATGG  
ATTCTGAGGAGCCGGACAGCCGGGAGGCTCCCCCTCAGATGGATGACATCAAAGTGTTCCAGAAATGAAGTTTTAG  
GAACTACTACAGCGGGGCAAAGAGGAGAACATTTCTTGTGACAATCTCGTCTGAAATCAACTCTCTCAAGTATG  
CCTATAACGTAAGTCTAAAGGAGGTGATGCAGGTACTGAGCCACGTGGTCTCTGGAGTTCCTCCCTGCAACAGATGG  
ATTCCCCGCTTGACTCAAGCCGCTACTGTGCCCTGCTGCTTCTCTGCTAAAGGCCTGGAGCCCTGTTTTTAGGA  
ACTACATAAAGCGCGCAGCCGACCATTGGAAGCGTTAGCAGCCATTGAGGACTTCTTCTTAGAGCATGAAGCTC  
TTGGTATTTCCATGGCCAAGGTACTGATGGCTTTCTACCAGCTGGAGATCCTGGCTGAGGAAACAATTCTGAGCT  
GGTTCAGCCAAAGAGATACAACACTGACAAGGGCCAGCAGTTGCGCAAGAATCAACAGCTGCAGAGGTTTCATCCAGT  
GGCTAAAAGAGGCAGAGAGGAGTCACTCTGAAGATGACTGAAGTCACTGCCTGCTCCTTTGGGTGTGATTGAG  
TGCCCTCCTGGCTCCTGGGCTGGGACAAGTGAGGAACCTAGCTGCAGAGGGATGAGTGACCACCATCCAGGCTGAG  
ACTGAAAGGAGCAGAGGCTGGAACCTACAGTATTCTTTCCCTGCTAGCAACCATGTGCCTCCCATCCTGACTGTG  
GAGTTGGGATGTGGAAGTGGGGCTGGAACAAAGCTTCTGCTAGGGAGGAGCTAAGCAGGCCCGGCAGTTGGAGG  
AAGGCCAGAGGAACAGCTTTGTGCTCCGCTTTCCCTCAGGGAACAGCAGAGAGCAGTTGGCTCTTTCTGCTGCT  
TGTATATGTTAATATTAAAAGAGAGTGGTGT

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**FIGURE 1311**

MAAPVVAPPGVVVS RANKRSGAGPGGSGGGGARGAEEPPPPPLQAVLVADSFDRRFFPISKDQPRVLLPLANVAL  
IDYTLEFLTATGVQETFFVCCWKAQIKEHLLKSKWCRTSLNVVRIITSELYRSLGDVLRDVAKALVRSDFL  
VYGDVISNINITRALEEHRLRRKLEKNVSVMTMIFKESSPSHPTRCHEDNVVAVDSTTNRVLHFQKTQGLRFA  
FPLSLFQGSSDGEVRYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARV  
SNLHMYSAVCADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRGPEVSLGHGSILEENVLLGSGTVIGSNCFIT  
NSVIGPGCHIGDNVVDQTYLWQGV RVAAGA QIHQSLLCDNAEVKERVTLKPRSVLTSQVVVGPNITLPEGSVIS  
LHPPDAEEDDDGEFSDDSGADQEKDKVKMGYNPAEVGAAGKGYLWKAAGMNMEEEEELQQNLWGLKINMEEES  
ESESEQSMDSEEPDSRGGSPQMDDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNVSLKEVMQVLSHV  
LEFPLQQMDSPLDSSRYCALLLELLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALGISMALMAFYQLEI  
LAEETILSWFSQRDITDKGQQLRKNQQLQRFIQWLKEAEEESSEDD

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**FIGURE 1312**

ATGGCGGCCCTGTAGTGGCGCCGCCTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGCGGCGGGGCCGGGA  
GGCAGCGGTGGCGGGGGAGCCAGAGGGGCGGAGGAGGAACCGCCGCCGCCCTACAAGCAGTTCTGGTGGCCGAT  
AGCTTCGATCGCCGCTTCTTCCCCATCTCCAAGGACCAGCCTCGGGTCCCTTGCCCCCTGGCCAATGTGGCATT  
ATTGACTACACTCTGGAATTCCTGACTGCCACAGGTGTACAGGAAACATTGTCTTTTGTGCTGGAAAGCTGCT  
CAAATCAAAGAACATTTACTGTAAGGCCCTGCAACTTTTCTTTCCATGTTTCGCCATCTTTTCCAGTTTTTCA  
GGATGAATGTAATAAGGGGAAATGTGAGAGGGGAAAAATGTGTCTACTTAGATGTCATTGTAAGTTCTAAGGGT  
ATTTTCTACACTTATCAGGAGGTGAGCAGCTGAACTTTGTATCTGTCTGTCTTGGGTTTTCTGTGACAAAGATT  
AAAGAATAAACTTGGGTTTTTCTGAATCTC

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**FIGURE 1313A**

CAAGCGACACAAATGAACACGCCTTCTCAGCCCCGCCAGCACTTCTACCCTAGCCGGGCCCCAGCCCCGAGCAGT  
GCAGCCTCCCGAGTGCAGAGTGCAGCCCTGCCCGCCCTGGCCAGCTGCCCCATGTCTACCCTGCTGGATCCCCAA  
GTAATGATGATCCCTTCCCAGATCTCTACCCAGCCTCCCAGGGGGCCTACTACATCCCTGGACAGGGGCGTTCC  
ACATACGTTGTCCCACACAGCAGTACCCTGTGCAGCCAGGAGCCCCAGGCTTCTATCCAGGTGCAAGCCCTACA  
GAATTTGGGACCTACGCTGGCGCCTACTATCCAGCCCCAAGGGGTGCAGCAGTTTCCCACTGGCGTGGCCCCCACC  
CCAGTTTTGATGAACCAGCCACCCCAGATTGCTCCCAAGAGGGAGCGTAAGACGATCCGAATTCGAGATCCAAAC  
CAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTGGGGCCCGCACTGCCTCCACACCCACCCCTCCCCAGACG  
GGAGGCGGTCTGGAGCCTCAAGCTAATGGGGAGACGCCCCAGGTTGCTGTCAATTGTCCGGCCAGATGACCGGTCA  
CAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTGGCCAGAGCATAGCCCTTCAGAATCCCAGCCTTCGTCTG  
CCTTCTCCGACCCCATCACCATCCCCAGTCTTGGAACCGGGGTCTGAGCCTAATCTCGCAGTCCTCTCTATTCCCT  
GGGGACACTATGACAACTATACAAATGTCTGTAGAAGATCAACCCCCATCTCCCGTGAAGTGGGGAGCCATAT  
CGCCTCTCTCCAGAACCCACTCCTCTCGCCGAACCCATACTGGAAGTAGAAGTGACACTTAGCAAACCGGTTCCA  
GAATCTGAGTTTTCTTCCAGTCTCTCCAGGCTCCCACCCCTTTGGCATCTCACACAGTGGAAATTCATGAGCCT  
AATGGCATGGTCCCATCTGAAGATCTGGAACCAGAGGTGGAGTCAAGCCCAGAGCTTGCTCCTCCCCAGCTTGC  
CCCTCCGAATCCCTGTGCCCATTTGCTCCAACCTGCCAACCTGAGGAAGTGTCAACGGAGCCCCCTCGCCACCA  
GCTGTGGACTTAAGCCAGTCAGTGAGCCAGAGGAGCAGGCCAAGGAGGTGACAGCATCAATGGCGCCCCCACC  
ATCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTACTTCCCCAGCTCAGGAGGAGGAATGGAAGAAGAAGAA  
GAAGAGGAAGAAGGAGAAGCAGGAGAAGCAGGAGAAGCTGAGAGTGAGAAAGGAGGAGAGGAAGTGTCCCCCA  
GAGAGTACCCCTATTCCAGCCAACCTTGCTCTCAGAATTTGGAGGCAGCAGCAGCCACTCAAGTGGCAGTATCTGTG  
CCAAAGAGGAGACGGAAATTAAGGAGCTAAATAAGAAGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAG  
GCGAACCCGGCAGTACCAGAGGTGGAAATCAGCCTCCTGCAGGCAGCAATCCAGGCCAGAGTCTGAGGGCAGT  
GGTGTGCCCCACGTCTGAGGAAGCAGATGAGACCTGGGACTCAAAGGAAGACAAAATTCACAATGCTGAGAAC  
ATCCAGCCCGGGGAACAGAAGTATGAATATAAGTCAGATCAGTGAAGCCTCTAAACCTAGAGGAGAAAAACGT  
TACGACCGTGAGTTCTGCTTGGTTTTAGTTTCTTGGCAGTATGCAGAAGCCAGAGGGATTGCCACATATC  
AGTGACGTGGTGTGGAACAAGGCCAATAAACACCACTGCGGCCACTGGATCCCACTAGACTACAAGGCATAAAT  
TGTGGCCAGACTTCACTCCATCCTTTGCCAACCTTGCCCGGACAACCCTTAGCACCCGTGGGCCCCCAAGGGT  
GGGCCAGGTGGGGAGCTGCCCCGTGGGCCGGCTGGCCTGGGACCCCGCGCTCTCAGCAGGGACCCCGAAAGAA  
CCACGCAAGATCATTGCCACAGTGTTAATGACCGAAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAAACCC  
AGCAGCAAGCGGACGGCGGCTGATAAGGATCGAGGGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATT  
CGCAGGGTGCCTCCATCCTGAATAAACTGACACCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTG  
GCCATCGACACCGAGGAACGCCTCAAAGGGGTCAATTGACCTCATTTTTGAGAAGGCCATTTACAGGCCCAACTTC  
TCTGTGGCCTATGCCAACATGTGCCGCTGCCTCATGGCGCTGAAAGTGCCCACTACGGAAAAGCCAACAGTGACT  
GTGAACCTCCGAAAGCTGTTGTTGAATCGATGTGAGAAGGAGTTTGAGAAAGACAAAGATGATGATGAGGTTTTT  
GAGAAGAAGCAAAAAGAGATGGATGAAGCTGCTACGGCAGAGGAACGAGGACGCCTGAAGGAAGAGCTGGAAGAG  
GCTCGGGACATAGCCCGGCGGCTCTTTAGGGAATATCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTA  
ACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGCTTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGT  
CGTCTGCTCACCACATTGGCAAAGACCTGGACTTTGAAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAG  
ATGGAAAAATCATTAAGAAAAGAAGACGTCATCCGCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGA  
GGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTCCCAAGACCATTGACCAGATCCATAAGGAGGCTGAGATG  
GAAGAACATCGAGAGCACATCAAAGTGCAGCAGCTCATGGCCAAGGGCAGTGACAAGCGTCCGGGGCGGTCTCCA  
GGCCCTCCCATCAGCCGTGGACTTCCCTTGTGGATGATGGTGGCTGGAACACAGTTCCCATCAGCAAAGGTAGC  
CGCCCCATTGACACCTCAGACTACCAAGATACCAAGCCTGGCTCCATCGATTCTAACAACCAAGCTCTTTGCA  
CCTGGAGGGCGACTGAGCTGGGGCAAGGGCAGCAGCGGAGGCTCAGGAGCCAAGCCCTCAGACGCAGCATCAGAA  
GCTGCTCGCCAGCTACTAGTACTTTGAATCGCTTCTCAGCCCTTCAACAAGCGGTACCCACAGAAAGCACAGAT  
AATAGACGTGTGGTGCAGAGGAGTAGCTTGAAGCGAGAACGAGGCGAGAAAGCTGGAGACCGAGGAGACCGCTA  
GAGCGGAGTGAACGGGGAGGGGACCGTGGGGACCGGCTTGATCGTGCAGGACACCTGCTACCAAGCGGAGCTTC  
AGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCAGCCTGAGGGGCTGCGCAAGGCAGCTAGCCTCAGC  
GAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTGCCCTACCCCCAGTGAGCCCCCTGAAGGCGGT

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**FIGURE 1313B**

CTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTGAGGAATATCTCCATCTCAATGACATGAAAGTA  
GGCAGTCCAGTGCGTGCAGGAGCTGGCCTCACCCCTCCTTGCTCTTCATCTTTGTACGGCATGGTGTGCGAGTCTAC  
GCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGCTGCACCAGCTGCTCTGTGCTGGGCATCTGTC  
TACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAATTGGCTGAGGACATGGAATTGACATCCCCACGT  
GTGGCTCTACCTAGCGGAACCTGGTAACACCCATTCTGCAGGAAGGTGGGGTGCCCATGGGGGAGCTGTTCAAGGA  
GATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGTTGCTGGAGATCCTGGGCCTCCTGTGCAAAAG  
CATGGGTCTTAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGCTTAGCTGGAAGGAATTTCTACCTGAAGGCCA  
GGACATTGGTGCATTTCGTCGCTGAACAGAAGGTGGAGTATACCCTGGGAGAGGAGTCGGAAGCCCCCTGGCCAGAG  
GGCACTCCCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGCTGAAGGAGGGCAGCAGTAACCAGCGGGTGT  
CGACTGGATAGAGGCCAACCTGAGTGAGCAGCAGATAGTATCCAACACGTTAGTTCGAGCCCTCATGACGGCTGT  
CTGCTATTCTGCAATTATTTTGTGAGACTCCCCCTCCGAGTGGACGTTGCAGTGCTGAAAGCGCGAGCGAAGCTGCT  
GCAGAAATACCTGTGTGACGAGCAGAAGGAGCTACAGGCGCTCTACGCCCTCCAGGCCCTTGTAGTGACCTTAGA  
ACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGGACGTGGTGAAGGAGGATGCCTTCTA  
CAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGGCCCTTAAATCTGTACAGCCTTCTT  
CAAGTGGCTCCGTGAAGCAGAGGAGGAGTCTGACCACAACCTGAGGGCTGGTGGGGCCGGGGACCTGGAGCCCCAT  
GGACACACAGATGGCCCGGCTAGCCGCCCTGGACTGCAGGGGGCGGCAGCAGCGCGGTGGCAGTGGGTGCCCTGT  
AGTGTGATGTGTCTGAACTAATAAAGTGGCTGAAGAGGCAGGATGGCTTGGGGCTGCCTGGGGCCCCCTCCAGGA  
TGCCGCCAGGTGTCCCTCTCCTCCCCCTGGGGCACAGAGATATATTATATATAAAGTCTTGAAATTGGTGTGTC  
TTGGGGTGGGGAGGGGCACCAACGCCTGCCCTGGGGTCCTTTTTTTTATTTTCTGAAAATCACTCTCGGGACTG  
CCGTCTCGCTGCTGGGGGCATATGCCCCAGCCCTGTACCACCCCTGCTGTTGCCTGGGCAGGGGGAAGGGGGG  
GCACGGTGCCTGTAATTATTAAACAT

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**FIGURE 1314A**

GCCGCGGCCACCGGAAGAGTCGCGGTCGCCAGTCCAGTCGGGAGAGTGGGGAGCGGAAGCGGCGGCCGCGGCGGC  
GGCGGGCGGCGCTGGGACCCGGTAGCGGCCGAGAACAAAGGGAGCTGGCGCCGCCAGCAGCCGCCGAGCTGGGTT  
GAGCCGCTGGGCGCGCGCCGCGCGCCGCCGCTCTGGGAGGCTCGGCCCGGCCGCCGAGCAGGCCGCGCGCGGG  
CCGCCGGGCCGAGGCCAGAGCCATGGGCGAGACCAAGATCATCTACCACCTTGATGGGCAGGAGACGCCGTACC  
TTGTGAAGCTGCCCCCTGCCCGCCGAGCGCTCACCTTGGCGGACTTTAAGGGCGTTTTGACGCGACCCAGCTATA  
AGTTCTTCTTCAAGTCTATGGACGACGATTTCGGAGTGGTGAAGGAGGAGATCTCGGATGACAATGCCAAGCTAC  
CATGCTTCAATGGCCGGGTGGTGTCTGGCTGGTGTAGCTGAGGGCTCACACCCAGACCCAGCCCCCTTCTGTG  
CTGATAACCCATCGGAGCTGCCACCACCTATGGAGCGCACGGGAGGCATCGGGGACTCCCCAGCCCCCATCCTTCC  
ACCCTCATGCTGGTGGGGGCGAGCCAGGAGAACCTGGACAATGACACAGAGACGGACTCTTTGGTGTCTGCCCAGC  
GAGAGCGGCCACGCCGGAGGGATGGCCAGAGCATGCAACCCGGCTAAATGGAAGTGGCAAGGGGGAACGGCGGC  
GAGAACCAGGGGGTTATGATAGCTCATCCACCTTATGAGCAGTGAGCTGGAGACCACAGCTTCTTTGACTCAG  
ATGAGGATGACTCCACCAGCAGGTTTACGAGCTCCACAGAACAGAGCAGTGCCTCACGCCTGATGAGAAGACACA  
AGCGGCGGCGGCGGAAGCAGAAGGTTTCTCGGATTGAGCGGTCTCTGTCCTTCAGCAGCATCACGGACTCCACCA  
TGTCATCAACATCATCAGGTCACCTCTCAACATGGAATAATACTTCTTGGGCATCTCCATTGTGGGCCAAA  
GCAACGAGCGTGGTGACGGCGGCATCTACATTGGCTCTATCATGAAGGTGGGGCCGTGGCTGCTGATGGACGCA  
TCGAGCCAGGAGATATGTTGTACAGGTAAACGAGATCACTTTGAGAACATGAGTAATGACGATGCAGTCCGGG  
TACTGCGGGAGATTGTGCACAAACCGGGGCCCATCACCTGACTGTAGCCAAGTGCTGGGACCCAAGTCCACGTG  
GTTGCTTACATTGCCCAGGAGCGAGCCCATCCGGCCCATTGACCCTGCGGCCTGGGTCTCCACACTGCAGCCA  
TGACCGGCACCTTCCCTGCATACGGCATGAGCCCCCTCCCTGAGCACCATCACCTCCACCAGCTCCTCCATACCA  
GTTCCATCCCTGACACAGAGCGCCTAGACGACTTCCACTTGTCATCCACAGTGACATGGCTGCCATCGTAAAAG  
CCATGGCCTCCCTGAATCAGGGTTGGAGGTCCGTGACCGCATGTGGCTCAAGATTACCATCCCTAATGCTTTCA  
TCGGCTCAGATGTGGTGGACTGGCTGTACCACAATGTGGAAGGCTTACGGACCGGAGGGAGGCCGCAAGTATG  
CCAGCAACCTGCTGAAAGCTGGCTTTCATCCGCCATACCGTCAACAAGATCACCTTCTCCGAGCAGTGCTACTACA  
TCTTCGGTGACCTCTGCGGCAACATGGCCAACCTGTCTCTCCACGATCACGATGGCTCCAGTGGCGCCTCTGACC  
AGGACACACTGGCCCCCTTGCCGCACCCGGGGGCGCCCTTGGCCCATGGCTTTCCCGTACCAGTACCCGCCAC  
CCCCGACCCATACAACCCGCACCCGGGCTTCCCGGAGCTGGGCTACAGCTACGGCGGGGGCAGCGCCAGCAGTC  
AGCACAGCGAAGGCACTCGGAGCAGTGGCTCCAACCGTAGCGGCAGCGATCGGAGGAAGGAGAAGGACCCGAAGG  
CCGGGACTCCAAGTCCGGGGGCGAGCGGAGCGAATCGGACCACACACAGCAGCAGCCTGCGGGGGCGCGGG  
AGCGGGCGCCAGCGAGCGCTCAGGGCCGGCGGCCAGCGAGCACAGCCACCGCAGCCACCATTCCTTGGCCAGCA  
GCCTTCGAGCCACCACACACACCCGAGCTACGGTCTCCCGGAGTGCCCCCTCTCTACGGCCCCCATGCTGA  
TGATGCCCCCGCCGCCCGCGGCCATGGGGCCCCCAGGAGCCCCCTCGGGCCGCGACCTGGCCCTAGTGCCCCCGG  
AACTGACCGCCAGCAGACAGTCCCTTCGCGATGGCCATGGGAAACCCAGTGAGTTCTTTGTGGATGTGATGTGAG  
CAGGGCCCCCTCCCCAGCTCCATTCCGCTCCCACCCAGCCGGCTGCGTTCTCTCTCCATCCGTCCGTCTTTTT  
TACTTTGTCTGGTACCTGAAAGGGAAATAAAAGGAATAAATCCAGGTGCGCTAACTGCTCGCAGGGTGCTGCGA  
GGGTGGGGTGCACCTACCGATTGGCTCTGCAGCCCCCTAACCTGCCTCTGGCCCCAGTTTCGTTCTCTGCCCC  
TAATCCCTGCGCAGGACTTCCCAGGACCCCTTTTGTCTCTGGGACCAGACTTGTGGTGGTACCCCTTACTCCCC  
TCTGCAACCCCCATTTTGGGAGTTGACCCAGCAATGACCTTGGTGGCAGCTCACTCCCTCATTCTCTCGTTTC  
CCCTTTAGCTCCCTTACCATTTTATTCAGCTACATCATCCCTCTATTAAACCCACCCATCAGGCACGTGTGCA  
AACCTCTTGACTTTACCCACATTACTGAAACCAAAATATATTGCTTCACTGCCCCCTACTAACCATCCCCCTG  
CCTGCTGCCTCAGTCTGCAACCTAAAGCTGTAGTCGCCTCCAATAGCCATCCATGCCATCCCTGCCTGTGCCTA  
GATCAGAGGCCAGAGGGCCCCCTCAGTTGCCTGAGCAGCTGGTGGCTTCCAGGGAGCATCTCTGCTCTACCCCT  
GCCCCATGCCTGCCTGCGTGCTGGTTCCCTTACAGCCCCCTAACCTTACTAACAGCAGGCTCATCTACCTCCAG  
GCCTGAAACATTTCTTTTCTTTCTTTTCTCCCAATTTTCCCTGGGCCTGGAGCAGCAAGAATTTGGGC  
TGTTTGAATTTCTGTGAGCCCCCAGCGAGGGGAGGCCAGCCTCCGAGGAGACCAGGAACCCTGCTTCAGCAGCC  
CCTCAGGGCTTCCAAGGATGTCCAGCCCCACACCCACACGTTAACATAATGAGTCACTAGGCTTCTGGGGAGG  
GCCCCAATTACCCATGCATGAGAGACTCTCTCTTTCAGAGAGAAATCGGATCGCACCAGTGTGGCAGCCTG  
CGGCGGGGGGAGGGGGGCTCTTTAGCTCTCTTTATCTTCTCTCTCACTCATGTATGCATACATGCACAGAGAT  
GCATACACAGGTGCTATGCAAGTTCATTTAAGCCTCAGGGCTGGTCCCTGCCCAAAGGGCTGGACCCCTCTAAT



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**FIGURE 1314B**

CCTCTCCTAGGTTGTGGGGCTGGTCCCCTGACACCCTTCTCCCCTTCCTGGTAGACCTTAAACCTCGCACACATG  
TCCCCAGCATTTCCTCACCTGGATAAAGCCCATAAGCTGGGTCTCAGGCTGGGCTCAGCAAAGGACTCGCCTTGC  
AACCGACAGGCCATTCCCAACCCACACACAACCTCCCCTGTTTTACATTACCATGGCATCCCAGAGCAAGGA  
CACAGGAGCCACAGGCCAGTTGAGGTTGGGCAAGGAGACTTCCAGGACTTCCAGACAGAGTACCAGGTTTTATT  
TTTCACCTTATTCTCTACTTTAAACAAATCATAACTTCTCTTTAAGCCTCTGCTATAAATTCTCCTGGCTCTCC  
TGGGCTTCCATATTTTGGGGGCTGGGGTGTCAAAAGTGAGATGAAGTTCTTAGCTCCAGGTTTGGGGTAAACCA  
AGGTAGGAACATTTTGGCATTATTTCAATTAACAATACTTCCCTGGACGGGTGCGGTGGCTCACGTCTGTAATC  
CCAGCACTTTGGGAGGCTGAGACAGGTGGATCACTTGAGGTGCGGAGTTCGAGACCAGCCTGGCCAACATAGCAA  
AACCTGTCTCTACTAAAAATACAAAATTAGATGGGTGTTTTGGCACCTGCCTGTAATCTCAGCTACTCAGGAG  
GCTGAGGCACAAGAATCGCTTGAATCCAGGAAGCAAGCGGAGGTTGCAGTGAGTTGAGATCGCACTCCAGCCTGG  
GTGACAGAGTGAGATTCTGTCTCAAAAGCAAATAACAAAGAAAAACAATACTTCTGGGGTTTTGGTGTGCAGA  
GGGCTTTGTTGGAAGTGTGACTCAATCTTGCCTGCCTTCTGGGAGCTCTAGAATTGTTCCCAACCCAGTCCATGG  
CTTCTAGCCACCACTACAGGGCTGTTTCATGTACTTCTCTCTGACTCTGTCTTGTCCGACTCTCTTGAGAATT  
TCTCAACGATTGCTCATGCCTGTCAGTATCAGTGCTTCCATCGTTCCATCTTGATTCACTTCTCTTCTCTTCT  
ATTTACTCCCAAAATGGAGTCATTATCCTGATGTCTCAATTGCTGCTGATATGCTGGTGATTCCCAAAATACAT  
AGCTCCAACCCCAACTTCCCCCAGACTTTAGATCTGTATTGGTATTACCTACTGGACATCTCTATGGACAGTTC  
CGTATAGACTCAACTCATCTGCCCAACCAAGTATGTTCCCTCCTGAATTCCCTCCTGTTACTTCATCACAATCT  
ACATAGGCTCACCAGCTAGAAACATTTATGAGCTTACATTCCTTCTTCCCATATCTTATCAGCATATCATATCCA  
TTTCACTCCAACACTCTGTCTTGAATTGGCCCTCCCTCTCCCCTCTCTACTTTAATTCATTGGAGCATGGGATT  
TGGAGTTAGGTGGTTTTGGGTTTGAATTCAGCTCTACTATTTTGGTTGTGTGATAGAGTTATTTAACCTCTCT  
GAGCCTCAGTTCCCTCGTATGTAAATGATGATAATAATACCTACCTCACAGGGTTGTTGTGAGGATTTAAATTA  
GATATTGTACGAAAAGTGCTTAGCACAGTGCCTGGCACACAGTAGAGTAGGTGCTCAATAAATGGTAGCTATTAT  
TATT

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**FIGURE 1315**

CCGAGGCAGCGGGCAGACGAGCAGGGGGCGGGCGGACATCTTGGGATCCGGAGAGTGGCCGGGCGGCAGAGCAG  
GGGGCCGAGGACACCAGGTCTGTTCTCAGAGCGATGGGCCGCGGAGACTGATCTGCCGCCATGATTGGAGGCTTA  
TTCATCTATAATCACAAGGGGGAGGTGCTCATCTCCCGAGTCTACCGAGATGACATCGGGAGGAACGCAGTGGAT  
GCCTTTCGGGTCAATGTTATCCATGCCCGGCAGCAGGTGCGCAGCCCCGTACCAACATTGCTCGCACCAGCTTC  
TTCCACGTTAAGCGGTCCAACATTTGGCTGGCAGCAGTCACCAAGCAGAATGTCAACGCTGCCATGGTCTTCGAA  
TTCCTCTATAAGATGTGTGACGTGATGGCTGCCCTACTTTGGCAAGATCAGCGAGGAAAACATCAAGAAACAATTTT  
GTGCTCATATAAGAGCTGCTGGATGAGATTCTAGACTTTGGCTACCCACAGAATTCCGAGACAGGCGCGCTGAAA  
ACCTTCATCACGCAGCAGGGCATCAAGAGTCAGATGTAGACAAAAGAAGAGCAGTCACAGATCACCAGCCAGGTA  
ACTGGGCAGATTGGCTGGCGGCGAGAGGGTATCAAGTATCGTCGGAATGAGCTCTTCCTGGATGTGCTGGAGAGT  
GTGAACCTGCTCATGTCCCCACAAGGGCAGGTGCTGAGTGCCCATGTGTGGGCCGGGTGGTGTGAAGAGCTAC  
CTGAGTGGCATGCCTGAATGCAAGTTTGGGATGAATGACAAGATTGTTATTGAAAAGCAGGGCAAAGGCACAGCT  
GATGAAACAAGCAAGAGCGGGAAGCAATCAATTGCCATTGATGACTGCACCTTCACCAGTGTGTGCGACTCAGC  
AAGTTTGACTCTGAACGCAGCATCAGCTTTATCCCGCCAGATGGAGAGTTTGAGCTTATGAGGTATCGCACAAACC  
AAGGACATCATCCTTCCCTTCCGGGTGATCCCGCTAGTGCGAGAAGTGGGACGCACCAAACCTGGAGGTCAAGGTG  
GTCATCAAGTCCAACCTTTAAACCCCTCACTGCTGGCTCAGAAGATCGAGGTGAGGATCCCAACCCCACTGAACACA  
AGCGGGGTGCAGGTGATCTGCATGAAGGGGAAGGCCAAGTACAAGGCCAGCGAGAATGCCATCGTGTGGAAGATC  
AAGCGCATGGCAGGCATGAAGGAATCGCAGATCAGCGCAGAGATTGAGCTTCTGCCTACCAACGACAAGAAGAAA  
TGGGCTCGACCCCCCATTTCCATGAACTTTGAGGTGCCATTTCGCGCCCTCTGGCCTCAAGGTGCGCTACTTGAAG  
GTGTTTGAACCGAAGCTGAACTACAGCGACCATGATGTCATCAAATGGGTGCGCTACATTGGCCGAGTGGCATT  
TATGAAACTCGCTGCTAGCTGCCACTAGGCAGCTAGCCCACCTCCCCAGCCACCTCCCTCCACAGGTCCAGGTGC  
CGCTCCCTCCCCCACCACACACTAGTGTCTCCTCCCTCCTGCTTTGCTGCCTTCCCTTTGCACCAGCCCGAGTCT  
AGGTCTGGGCCAAGCACATTACAAGTGGGACCGGTGGAGCAGCCCCCTGGGCTCCCTGGGCAGGGGAGTTCTGAGG  
CTCCTGCTCTCCCATCCACCTGTCTGTCTTGGCCTAATGCCAGGCTCTGAGTTCTGTGACCAAAGCCAGGTGGGT  
TCCCTTTCCTTCCCACCCCTGTGGCCACAGCTCTGGAGTGGGAGGGTTGGTTGCCCTCACCTCAGAGCTCCCCC  
AAAGGCCAGTAATGGATCCCCGGCCTCAGTCCCTACTCTGCTTTGGGATAGTGTGAGCTTCATTTGTACACGTG  
TGACTTCGTCCAGTTACAAACCAATAAACTCTGTAGAGTGG

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**FIGURE 1316**

GGTGGGCCCCACACAAGCGGCGCACCGTTAAGATGCGGGCTGGGCTGCGGAAACGCGGCCGGTCCGGTTCCGCGGC  
CCAGGCAGAGGGACTCTGCAAGCAATGGCTGCAGCGCGCCTGGCAAGAGCGGCGCCTGCTGCTGCGGGAGCCGCG  
CTACACGCTGCTGGTGGCCGCTGCCTCTGCCTGGCGGAGGTGGGCATCACCTTCTGGGTCAATCACAGGGTGGC  
ATACACAGAGATTGACTGGAAGGCCTACATGGCCGAGGTAGAAGCGTCATCAATGGTACCTATGACTATACCCA  
ACTGCAGGGTGACACCGGACCACTTGTGTACCCAGCTGGTTTCGTGTACATCTTTATGGGGTTGTACTATGCCAC  
CAGCCGAGGCACTGACATCCGCATGGCCAGAACATCTTTGCTGTGCTCTACCTGGCTACCTTGCTGCTTGTCTT  
CTTGATCTATCACCAGACCTGCAAGGTACCTCCCTTCGTCTTTTTCTTCATGTGCTGCGCCTCTTACCGTGTCCA  
CTCCATCTTTGTGCTGCGGCTCTTCAATGACCCAGTGGCCATGGTGTGCTCTTCTCAGTATCAACCTCCTGCT  
GGCCCAGCGCTGGGGCTGGGGCTGCTGCTTTTTTCAGCCTGGCAGTCTCTGTGAAGATGAATGTGCTGCTCTTCGC  
CCCTGGGTTACTGTTTTCTTCTCCTCACACAGTTTGGCTTCCGTGGGGCCCTCCCAAGCTGGGAATCTGTGCTGG  
CCTTCAGGTGGTGTGCTGGGGCTGCCCTTCTGCTGGAGAACCCAGCGGCTACCTGTCCCGCTCCTTTGACCTTGG  
CCGCCAGTTTCTGTTCCACTGGACAGTGAAGTGGCGCTTCTCCAGAGGCGCTCTTCTGCATCGAGCCTTCCA  
CCTGGCCCTGTTGACTGCCCCACCTCACCTGCTCCTGCTGTTTGCCCTCTGCAGGTGGCACAGGACAGGGGAAAG  
TATCTTGTGCTGCTGAGGGATCCCTCCAAAAGGAAGGTTCCACCCAGCCCCTTACACCAACCAGATCGTTTC  
TACCCTCTTCACCTCCAACCTCATTGGCATCTGCTTCAGCCGCTCCCTCCACTACCAGTTCTACGCTCTGGTATTT  
CCACACACTGCCCTACCTCCTGTGGGCCATGCCTGCACGGTGGCTCACACACCTGCTCAGGTTGTTGGTGTGCTGG  
GCTCATCGAGCTCTCCTGGAACACATACCCTTCCACATCCTGCAGCTCTGCTGCCCTGCACATATGCCATGCCGT  
CATCCTGCTGCAGCTCTGGCTGGGCGCGCAGCCTTTCCCAAGAGCACCAACACAGCAAGAAAGCCCACTGAAG  
TCCACCCCTTTCCCTCAGGACCTGAGTCTACCCTCAGGACCTGGGGTGGGTGGACTCTGCCCTTCCAAATAAAC  
CTTGCTAAGTCCAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1317**

MAAGLRKRGRSGSAAQAEGLCKQWLQRAWQERRLLLREPRYTLLVAACLCLAEVGITFWVIHRVAYTEIDWKAYM  
AEVEGVINGTYDYITQLQGDITGPDVYPAGFVYIFMGLYYATSRGTDIRMAQNIFAVLYLATLLLVFLIYHQTCKVP  
PFVFFFMCCASYRVHSIFVLRLFNDEPVAMVLLFLSINLLLAQRWGWGCCFFSLAVSVKMNVLFFAPGLLFLLLTQ  
FGFRGALPKLGICAGLQVVLGLPFILLENPSGYLSRSFDLGRQFLFHWTVNWRFLPEALFLHRAFLALLTAHLTL  
LLLFALCRWHRTGESILSLLRDPFSKRKVPPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFYVWYFHTLPYLLWAM  
PARWLTHLLRLLVLGLIELSWNTYPSTSCSSAALHICHAVILLQLWLGPQFPKSTQHSKKAH

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**FIGURE 1318**

[illegible]

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**FIGURE 1319**

MASPGAGRAPPPELLPERNCGYREVEYWDQRYQGAADSAPYDWFGDFSSFRALLEPELRPEDRILVLGCGNSALSIE  
LFLGGFPNVTISVDYSSVVVAAMQARYAHVPQLRWETMDVRKLDFFSASFDDVLEKGTLDALLAGERDPWTVSSEG  
VHTVDQVLSEVSRVLVPGGRFISMTSAAPHFRTRHYAQAYYGWSLRHATYGSGFHFHLYLMHKGGKLSVAQLALG  
AQILSPPRPPTSPCFLQSDHEDFLSAIQL

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**FIGURE 1320**

GAGGCTGCGCGCCGCAGGTTCCGGCTGCTGGCGGCGTTGCGGCCGCAGGTTTACTCCCGTGCGGTGCGGCCAG  
CAGCCACAAAGCTCCCGCTGCCATTGCTCCTTGTA TCTCCCGCGTCACTGCCGCTGTCCAACCCCTCCCCGGGG  
CTTGCGCGGGCGGCTCCACACCCCTCGGCCCGGTGACGCGCTCTGCACCTGCCCTGCCCCGAAAACATGTTGCAGAC  
ACCAGAGAGCAGGGGGCTCCCGGTCCCGCAGGCCGAGGGGGAGAAGGATGGCGGCCATGATGGTGAGACCCGGGC  
CCCGACCGCTCGCAGGAGCGCCCCAAGGAGGAGCTTGGCGCCGGGAGGGAGGAGGGGGCTGCGGAGCCCGCCCT  
CACCCGGAAAGGCGCGAGGGCCTTGGCGGCCAAAGCCTTGGCAAGGCGCAGGGCCTACCGCGGCTGAATCGGAC  
GGTGGCGGAGTTGGTGAGTTCCTCCTGGTGAAAGACAAGAAGAGTCCCATCACACGCTCGGAGATGGTGAA  
ATACGTTATTGGAGACTTGAAGATTCTGTTCCCGGACATCATCGCAAGGGCCGCAGAGCATCTGCGGTATGTCTT  
TGGTTTTGAGCTGAAACAGTTTGACCGCAAGCACCACACTTACATCCTGATCAACAACTAAAACCTCTGGAGGA  
GGAGGAGGAGGAGATCTGGGAGGAGATGGCCCCAGATTGGGTCTGTTAATGATGATCCTGGGCCTTATCTATAT  
GAGAGGTAATAGCGCCAGGGAGGGCCAGGTCTGGGAGATGCTGCGTCGGTTGGGGGTGCAACCCCTCAAAGTATCA  
TTTCTCTTTGGGTATCCGAAGAGGCTTATTATGGAAGATTTTGTGCAGCAGCGATATCTCAGTTACAGGCGGGT  
GCCTCACACCAATCCACCAGAATATGAATTCTCTTGGGGTCCCCGAAGCAACCTGGAAATCAGCAAGATGGAAGT  
CCTGGGGTTCTGTGGCCAACTGCATAAGAAGGAACCGCAGCACTGGCCAGTGCAGTACCGTGAGGCCCTAGCAGA  
CGAGGCCGACAGGGCCAGAGCCAAGGCCAGAGCTGAAGCCAGTATGAGGGCCAGGGCCAGTGCTAGGGCCGGCAT  
CCACCTCTGGTGAGGGTTGGTGAAAAGTTGGCCAGTGGGTCCCCGTGAGGACGAACCTACTGTCCTGAGTCATAAG  
TAATATGGGTGGGGCGAGGGTCTTATTTCTGTAGAAATCGTGTGACTTTAAGGATTTAGATTTTGTATCTTATGT  
TTTGTAACATTTAATAATTACTGTTAAATGCTGTTTGTAAATGAGATTGGTCTACTTTTTCTGTAGGATTTTA  
TTGTAGAGTTTGTCTGGTTTGTAAAATGGATGGAAGAACTTTGTATTTATACTGTGATTTTGAACAGATTATGC  
AACATTGGAAGGAAGGCTGTACTTTGATGGTTTGAAGGAACTCAGCAGTATGATGATCTGGTTCCAGGGGAAAAA  
AATAGCTGGTTGGTGTCTAGCCCCCAACACTTTTGTCTGTTGTGTATAAAAGAAGAAAGACTGGCATGTACCTT  
CATTTGCTTAGCTATTTGAGTATCTAGAGAAAAATTAATGCAATGAGTTAGCAGTATACCCCTGGCACACTTAA  
TAAATTAAACATTTGTGGAGC

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**FIGURE 1321**

MLQTPESRGLPVPQAEGEKDGGHGGETRAPTASQERPKEELGAGREEGAAEPALTRKGARALAAKALARRRAYRR  
LNRTVAELVQFLLVKDKKKSPITRSEMVKYVIGDLKILFPDIIARAAEHLRYVFGFELKQFDRKHHTYILINKLK  
PLEEEEEEDLGGDGPRLGLLMMILGLIYMRGNSAREAQVWEMLRRLGVQPSKYHFLFGYPKRLIMEDFVQORYLS  
YRRVPHTNPPEYEFWSGPRSNLEISKMEVLGFVAKLHKKEPQHWPVQYREALADEADRARAKARAEASMRARASA  
RAGIHLW



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**FIGURE 1322**

AGAGCTATGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCCTCTGGCCAGGGTGCTTTTGGAAACATG  
TGTCGTGGAGGCCGAAGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAA  
CGATATGCCATCTGTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAG  
GAAGTTCCTGAACCTTCCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTTGCTC  
CTTAAGAACTTAAAGCCTGGAATGATATCGAAAAGGCAGCAGCTACCAAGAAACCAGCCCCTGAAAAGAAGCCT  
GCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATAAACTCTTAAATTGATTATTCCATAAAGGTC  
AAATCATTTTGGACAGCTTCTTTGAATAAAGACCTGATTATACAGGC

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**FIGURE 1323**

ATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTGCTTTTGAAACATGTGTCGTGGAGGCCGA  
AGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAACGATATGCCATCTGT  
TCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAGGAAGTTCCTGAACTT  
CCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTTGCTCCTTAAGAACTTAAA  
GCCTGGAATGATATCGAAAAGGTCTATGCCTCTCAGCGAATGAGAGCTGGCAAAGGCAAGAAGCCTGTGGTAGGT  
AAGAAAGGAAAGAAGGCTGCTGTTGGTGTTAAGAAGCAGAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACC  
AAGAAACCAGCCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATTAAACT  
CTTAAATTTGATTATTCATAAAGGTCAAATCATTTTGGACAGCTTCTTTTGAATAAAGACCTGATTATACAGGC  
AGTGAGGAA

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**FIGURE 1324**

MCRGGRRFAPTKTWRRWHRRVNTTQKRYAICSALAASALPALVMSKGHRIEEVPELPLVFEDKVEGYKKTKEAVL  
LLKKLKAWNDIEKVYASQRMRACTGKKPVVGKKGKKAAGVKKQKKPLVGKKAATKKPAPEKKPAEKKPTTEEK  
KPAA

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**FIGURE 1325**

ATGACTGGAGTGAAGCTGGTCCTGAACTCGAGGCTGTGGAAAGCGCTCATGGAAAAGGCCTGTGCAAAATTATTA  
CCCTTCTGTGAAGTACTTAAAACCTACTCAAGGTGCAAGCTTTACACACCAATGCCGGGCTTGATTAATGGTATC  
AGAGGAGTTCGGTTCCCCCGAGTTTTCTCCACCCTCTGAAAATGCGGCCGGAACCCCTAATCCGCTGCGAGGCT  
GCAGCATCTTTCGGTGCTGTCCCTCCACACCCGTGTTATCCCCACCATCCCCAGGCCGCTGTTCCGGCTGCACT  
TGCTGTGTCATTTACCCCTCCCGGTGCTCTGGGGGGCAGCGCCTCTCAGACATTCCCCTCAAAC TGCTTCCG  
CCCCCTCCTCCCAACTGCGGAGCTCCGCCAAGCGTCTTCTCGCGAGCCTCCAAGTCCCCTCGGGGCTCTCGAA  
TCTCCAGAGACTGTGAAAGCCTCGCAACTCCGCGATCCCCATCCACTCGGGAGCCCCCGCACTCGCGCTCCGGG  
GCGCCTCCCCCAGCAGTGTGAAAGCCGCTCTCCCCGCGCTCCGGAACCGTTAGCCGCACCCGCCGACGCCTC  
CCAGGAACCAAACCGGACCGGGCCGCGGGGGGAGGGGGCGGTCAACCCGGGGGGGGTCACCCCAGCTACTGCACC  
CCGACTTTGAAGATTCTGAATCAGCCCGTGAAC TTAGCCGGCTGGGCCTGTTCGGACCAGTGGCCGGACGCCCT  
TCCGATCTCCCCCTGCCCCGCAAAGCCCCCTCACCTGAGGCGGCCTCTCTCTCCCTTGCAGCGGCCCGGC  
GGCGCAGGCGGCTCACGCACGCGCGCAGCGGGCCTGGGCGCCTGGGCGAAAGGCTGGGCCGAACCGCTCCGAAG  
ACGGTGAACCGCTCCGCGCACCAAGCGGCTGGACTCTGCGCCGAGCTGCCAACCAGGCTGGAGCGCTGGCCCGGC  
CCCCCGCGGCTCGCTGCTCCGCCCCGCCGCTTGGCCCCGCGGCCTAG

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**FIGURE 1326**

MTGVKLVLSRLWKALMEKACAKLLPFCEVLKTYSRCKLYTPMPGLINGIRGVRFPPEFSPPSENAAGTLIRCEA  
AASFGAVPSTPVLSPSPGRCSGCTCLCHLPPPGALGGSASQTFPSNCFPPPPNCGAPPSVSSREPPSPLGALE  
SPETVKASQLRDPPSTREPPHSRSGAPPPRRVESRSPRAPEPLAAPARRLPGTKPDRAAGGGGQPGGGHPSYCT  
PTLKILNQPVNSSRLGLSDQWPDAPSDLPPAPAKPPHLRRLSSPCSGPGGAGALTHARSGPGRLLGERLGRTAPK  
TVNRSAHQRLDSAPQLPTRLERWFGPPRLAAPPAAIGPRP

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**FIGURE 1327**

AATTC CGGTTGAAACCATCCCTCAGCTCCTAGAGGGAGATTGTTAGATCATGAACTAATTACCATCCTTTTCCT  
CTGCTCCAGGCTACTACTAAGTTTAAACCCAGGAATCACAGTCCGAGGAAATTGACTGCAATGACAAGGATTTATT  
TAAAGCTGTGGATGCTGCTCTGAAGAAATATAACAGTCAAACCAAAGTAACAACCAAGTTTGTATTGTACCGCAT  
AACTGAAGCCACTAAGACGGTTGGCTCTGACACGTTTTATTCCTTCAAGTACGAAATCAAGGAGGGGATTGTCC  
TGTTCAAAGTGGCAAACCTGGCAGGACTGTGAGTACAAGGATGCTGCAAAAGCAGCCACTGGAGAATGCACGGC  
AACCGTGGGGAAGAGGAGCAGTACGAAATTCTCCGTGGCTACCCAGACCTGCCAGATTACTCCAGCCGAGGGCCC  
TGTGGTGACAGCCAGTACGACTGCCTCGGCTGTGTGCATCCTATATCAACGCAGAGCCCAGACCTGGAGCCCAT  
TCTGAGACACGGCATTCACTACTTTAACAACAACACTCAACATTCCCTCCCTCTTCATGCTTAATGAAGTAAACG  
GGCCCAAAGACAGGTGGTGGCTGGATTGAACTTTGAATTACCTACTCAATTGTGCAAACGAATTGTTCCAAAGA  
GAATTTTCTGTTCTTAACCTCCAGACTGCAAGTCCCTTTGGAATGGTGATACCGGTGAATGTACAGATAATGCATA  
CATCGATATTCAGCTACGAATTGCTTCCTTCTCACAGAACTGTGACATTTATCCAGGGAAGGATTTTGTACAACC  
ACCTACCAAGATTTGCGTGGGCTGCCCCAGAGATATACCCACCAACAGCCCAGAGCTGGAGGAGACACTGACTCA  
CACCATCACAAGCTTAATGCAGAGAATAACGCAACTTTCTATTCAAGATTGACAATGTGAAAAAGCAAGAGT  
ACAGGTGGTGGCTGGCAAGAAATATTTATTGACTTCGTGGCCAGGGAAACCATGTTCCAAGGAAAGTAATGA  
AGAGTTGACCGAAAGCTGTGAGACCAAAAACTTGCCAAAGCCTAGATTGCAACGCTGAAGTTTATGTGGTACC  
CTGGGAGAAAAAATTTACCTACTGTCAACTGTCAACCACTGGGAATGATCTCACTGATGAAAAGGCCCTCCAGG  
TTTTTCACCTTCCGATCATCACGAATAGGGGAAATAAAGAAGAAACAAGTACCTAAGGTCTTGCAGTA  
CAAGGTCGACCCCCAAAGGCAGGGCAGAGCCAGCATCTGAGAGGGAGGTCTCTTGACCAATGGGCAGAATCTT  
CACTCCAGGCACATAGCCCCAACCACTCTGCCAGCAACCTTGAGAGGAAGGACAAGAAGAAAGATGGGATAGAA  
TTTAAATAGAGAAGAATGCCATTTATCACTCTGCCTCTGGGTGAAATAAAGATCAGTCTTGATGTTT

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**FIGURE 1328**

MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVIDAALKKYNSQNSNNQFVLYRITEATKTVGSDTFYSFK  
YEIKEGDCPVQSGKTWQDCEYKDAKAATGECTATVGKRSSTKFSVATQTCQITPAEGPVVTAQYDCLGCVHPIS  
TQSPDLEPILRHGIQYFNNNTQHSSLFMLEVKRAQRQVVAGLNFRTYSIVQTNCSENFLELTPDCKSLWNGD  
TGECTDNAYIDIQLRIASFQNCDIYPGKDFVQPPTKICVGCPRDIP TNSPELEETLHTITKLNAENNATFYFK  
IDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLGQSLDCNAEVYVVPWEKKIYPTVNCQPLGM  
ISLMKRPPGFSFPRSSRIGEIKEETTSHLRSC EYKGRPPKAGAEPASEREVS

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**FIGURE 1329**

GGCGGGAAGTCTGAGGCGACTGTGGGGACATCAGTGATCGTAAGTCTCCTGGGCCCCGTTATTCTCAGATTAGGTGAC  
GGAGCTAAGACTTCGAGACCATCTCGTCCTTTTTGTATCGCGGAAACCTGAGGAACGAGCCGGCGGGTGACCT  
GCACGAGAAGCCAGGCTAACTGGGTGAAGTACCATGCAAGCATTCTTAAAGGTACATCCATCAGTACTAAACCC  
CCGCTGACCAAGGATCGAGGAGTAGCTGCCAGTGCGGGAAGTAGCGGAGAGAACAAGAAAGCCAAACCCGTTCCC  
TGGGTGGAAAAATATCGCCCAAATGTGTGGATGAAGTTGCTTTCCAGGAAGAAGTGGTTGCAGTGCTGAAAAAA  
TCTTTAGAAGGAGCAGATCTTCCTAATCTCTTGTTTTACGGACCACCTGGAAGTGGAAAAACATCCACTATTTTG  
GCAGCAGCTAGAGAACTCTTTGGGCCTGAACTTTTCCGATTAAGAGTTCTTGAGTTAAATGCATCTGATGAACGT  
GGAATACAAGTAGTTCGAGAGAAAGTGAAAAATTTTGCTCAATTAAGTGTGTCAGGAAGTCGCTCAGATGGGAAG  
CCGTGTCCGCCCTTTTAAGATTGTGATTCTGGATGAAGCAGATTCTATGACCTCAGCTGCTCAGGCAGCTTTAAGA  
CGTACCATGGAGAAGGAGTCGAAAACCAACCCGATTCTGTCTTATCTGTAAGTATGTCAGTCGAATAATTGAACCC  
CTGACCTCTAGATGTTCAAAATTCGCTTCAAGCCTCTGTGATGATAAAATTCAGCAGCAGCGATTACTAGACATT  
GCCAAGAAGGAAAAATGTCAAAATTAGTGATGAGGGAATAGCTTATCTTGTTAAAGTGTGAGAGGAGACTTAAGA  
AAAGCCATTACATTTCTTCAAAGCGCTACTCGATTACAGGTGGAAAGGAGATCACAGAGAAAGTGATTACAGAC  
ATTGCTGGGGTAATACCAGCTGAGAAAATTGATGGAGTATTTGCTGCCTGTCAGAGTGGCTCTTTTGACAACTA  
GAAGCTGTGGTCAAGGATTTAATAGATGAGGGTCATGCAGCAACTCAGCTCGTCAATCAACTCCATGATGTGGTT  
GTAGAAAATAACTTATCTGATAAACAGAAGTCTATTATCACAGAAAACTTGCCGTAATTGACAAATGCCTAGCA  
GATGGTGCTGATGAACATTTGCAACTCATCAGCCTTTGTGCAACTGTGATGCAGCAGTTATCTCAGAATTGTTAA  
CGTGAATATATCTGGATGGGGGGTTTTGTAAATAATGAAGTTGTAATAAAAAATAAAATGACCAAAAGCACC



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**FIGURE 1330**

CCTCCAACCACCTGCACGCCTGCCTGCCAGGGCCTCTCTGGGGCAGCCATGAAGTCCCTCGTCCTGCTCCTTTGT  
CTTGCTCAGCTCTGGGGCTGCCACTCAGCCCCACATGGCCCAGGGCTGATTTATAGACAACCGAACTGCGATGAT  
CCAGAACTGAGGAAGCAGCTCTGGTGGCTATAGACTACATCAATCAAAACCTTCCTTGGGGATACAAACACACC  
TTGAACCAGATTGATGAAGTAAAGGTGTGGCCTCAGCAGCCCTCCGGAGAGCTGTTTGAGATTGAAATAGACACC  
CTGGAAACCACCTGCCATGTGCTGGACCCCAACCCTGTGGCAAGATGCAGCGTGAGGCAGCTGAAGGAGCATGCT  
GTGGAAGGAGACTGTGATTTCAGCTGTTGAACTAGATGGCAAGTTTTCCGTGGTATACGCAAAATGTGATTCC  
AGTCCAGACTCAGCCGAGGACGTGCGCAAGGTGTGCCAAGACTGCCCCCTGCTGGCCCCGCTGAACGACACCAGG  
GTGGTGCACGCCGCGAAAGCTGCCCTGGCCGCCTTCAACGCTCAGAACAACGGCTCCAATTTTCAGCTGGAGGAA  
ATTTCCCGGGCTCAGCTTGTGCCCCCTCCACCTTCTACCTATGTGGAGTTTACAGTGTCTGGCACTGACTGTGTT  
GCTAAAGAGGCCACAGAGGCAGCCAAGTGTAACTGCTGGCAGAAAAGCAATATGGCTTTTGTAAAGGCAACACTC  
AGTGAGAAGCTTGGTGGGGCAGAGGTTGCAGTGACCTGCACGGTGTTCCAAACACAGCCCGTGACCTCACAGCCC  
CAACCAGAAGGTGCCAATGAAGCAGTCCCCACCCCGTGGTGGACCCAGATGCACCTCCGTCCCCCTCCACTTGGC  
GCACCTGGACTCCCTCCAGCTGGCTCACCCCCAGACTCCCATGTGTTACTGGCAGCTCCTCCAGGACACCAGTTG  
CACCGGGCGCACTACGACCTGCGCCACACCTTCATGGGTGTGGTCTCATTGGGGTCACCCTCAGGAGAAGTGTG  
CACCCCCGAAAACACGCACAGTGGTGCAGCCTAGTGTGGTGTGCTGCTGCTGGGCCAGTGGTTCTCCATGTCCG  
GGGAGGATCAGACACTTCAAGGTCTAGGCTAGACATGGCAGAGATGAGGAGGTTTGGCACAGAAAACATAGCCAC  
CATTTTGTCCAAGCCTGGGCATGGGTGGGGGGCCTTGTCTGCTGGCCACGCAAGTGTACATGCGATCTACATTA  
ATATCAAGTCTTGACTCCCTACTTCCCGTCATTCTCACAGGACAGAAGCAGAGTGGGTGGTGGTTATGTTTGAC  
AGAAGGCATTAGGTTGACAACTTGTGATGATTTTGACGGTAAGCCACCATGATTGTGTTCTCTGCCTCTGGTTGA  
CCTTACAAAACCATTTGGAAGTGTGACTTTGAAAGGTGCTCTTGCTAAGCTTATATGTGCCTGTTAATGAAAGTG  
CCTGAAAGACCTTCCTTAATAAAGAAGGTTCTAAGCTG

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**FIGURE 1331**

MKSLVLLLCLAQLWGCHSAPHGPGLIYRQPNCDDEPETEEAALVAIDYINQNLPGYKHTLNQIDEVKVWPQQPSG  
ELFEIEIDTLETTCHVLDPTPVARCSVRQLKEHAVEGDCDFQLLKLDGKFSVVYAKCDSSPDSAEDVRKVCQDCP  
LLAPLNDTRVVHAAKAAALAAFNAQNNGSNFQLEEISRAQLVPLPPSTYVEFTVSGTDCVAKEATEAAKCNLLAEK  
QYGFCKATLSEKLGGAEVAVICTVFQTQPVTSQPQPEGANEAVPTPVVDPDAPPSPPLGAPGLPPAGSPPDShVL  
LAAPPQHQLHRAHYDLRHTFMGVVSLGSPSGEVSHPRKTRTVVQPSVGAAAGPVVPPCPGRIRHFKV

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**FIGURE 1332**

TTTCTTTAAGAGGAAGACGCGGTTCGTAGGTGCGAGGATTTCTGGTCCGCATGCTCCTGCTCCTGACTCACCGCTG  
TTCGCTCTCGCCGCCGAGGAACAAGTCGGTCATGAAGCCGCGCAGCAGCCATGGCTTTTAAGGATACCGGAAAAG  
CACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCCCTAACAAGCCGCAGCGTAAAATCCTTGAAAA  
AGGTGGGTGCTGACTTGATCAGAGGCGCAAAAGCAAAGAATCTCAAAGTGAAAGGAGGAGTTCGAATGCCTTCCA  
AGACTTTGAGAATCACTACAAGAAAACTCCTTGTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAGAA  
TTCACAAGCGACTCTTTGACTTGACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTACTGAGCCAG  
GAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTTAATAAATTGATTACCAGTTGTT

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## FIGURE 1333

GGAAAGACTATGTTTTAGGTGACCCGTGTGGCCTTTTTGTTGAGGCCTTTAGGATACAAGGCCCCACCTAAAGA  
CGCGACCCTCCCGTAGGAGGGGGGCGAGGGCCCGGGGCGGGAGCACAGCGGGGCCCCAGCCTCAGGCGGCGCGTC  
ACTGAGCACAAAGGAGACAACAGCGAGGCGGCAGCGGGCGCTGATCTTCGCTCGCCAGCCACTCGCAATTGCGGT  
TACAGACCTGCAGCTCCCCCTCCCCCAGCCGGCCCGCCCGCCTTTCTGTCTCCTCTCTCCCTCCGTACTGGACGG  
CCCCGGTCCATTTCCGGGCTCCGGATATTGGTATCGATTGGGGCCGGGACGCGGAGCAGGTGGCCGCGGGGG  
GCAGCTGGGCGGCCAGCTTGGTGCCCTCGGGGACCGTCTCCCGCTGCTTTGGTCACCAGCCCCTGCCGCCCCGACC  
CGCTCCGTTCTCCGGCCTGCGAGCCCTGCCGGCCGACTTTGCGCCGCGTCCGGCGCTGCTGCTGCGCTCGGGGC  
CCCCCTCGGCGCCGGCGGTGACCGGGAAGCCCGCTTAAAGGGGCAACCGGACCCCTGGCCCCGTATGGCTGAAG  
TCAGCATCGACCAGTCCAAGCTGCCTGGAGTCAAGGAAGTATGCCGAGATTTGCTGTCTGGAGGACCACACCC  
TGGCTCACAGCCTGCAGGAACAAGAGATTGAGCATCATTGGCATCGAACGTTTCAGCGGAACCGTTTGGTCCAGC  
ATGATCTCCAGGTGGCTAAGCAGCTCCAAGAGGAAGATCTGAAAGCGCAGGCCCAGCTCCAGAAGCGCTACAAAG  
ACCTTGAACAACAAGACTGTGAAATTGCTCAGGAAATTGAGGAGAAGCTGGCTATTGAGGCAGAGAGACGACGCA  
TTCAGGAGAAGAAGGATGAGGACATAGCTCGCCTTTTGCAAGAAAAGGAGTTACAGGAAGAGAAAAAGAGAAAGA  
AACACTTTCCAGAGTTCCCTGCAACCCGTGCTTATGCAGATAGTTACTATTATGAAGATGGAGGAATGAAGCCAA  
GAGTGATGAAAGAAGCTGTATCTACTCCATCAGCAATGGGCCACAGGGATCAGGAATGGTATGATGCTGAAATTG  
CCAGAAAAGTGAAGAAGAAGAACTTTTGGCTACCCAGGTGGACATGAGAGCCGCTCAAGTAGCTCAAGATGAAG  
AAATCGCTCGACTTCTAATGGCTGAAGAAAAGAAAGCTTACAAAAAGCCAAGGAGCGGGAGAAATCATCTTTGG  
ACAAAAGAAAGCAAGACCCGAGTGGAAGCCAAAAACAGCTAAAGCAGCAAATTTCCAAGTCAAAGAGAGTGATG  
AACCTCACCATTTCTAAGAATGAAAGGCCAGCACGGCCACCACCTATCATGACAGATGGTGAAGATGCGGATT  
ACACTCATTTTACAAACCAGCAGAGTTCCACACGGCATTCTCAAAATCAGAGTCCTCTCATAAAGGTTTTCATT  
ACAAACATTAACAACTAGGAATCTGCCTTGAAAATGGACTCACTATAGCAAATATTACTGGGTGATACAGAATG  
AATTCTACACTTACTTTTTTCTCCTGTGTTTGCAATTCCTGGGATTATCCTCAAGTGCAATTTCTGACCATAAGT  
AATTTAATTCATTTCAAATGTTTGGTTATTCATGATCACTTGGGCAGTATAAGAAAATGTAGCTTCTGAATAT  
TGGCCACCTCTATGCTGCATATACTTCTTGGGATATAGTATCTAAGACCTTTGTAACTGCCATTTTGTAGGTA  
TGGAGTTTGGTATCTAGGGAGTAGGCCTTATTTAGCAATTCAAATTTTATGGAGATGAATGATCAAAGTGAAACA  
ATGTTTGGATGCAACGCAGAATAAAAGAATATAAGAAATAGCTTTTGTGCAATTAATGTATGATATTTGAAGG  
ACAGAGCCTTTGCTTTTTGTATTCTTTAAGAAAAGCACAACCATAAAGTATTTTAAAAAAGAAACACTTGGAGC  
AATTGAAATATGTTATTCTGACTAGATGGACTGTAGAGGTTTGCATTTCTCAGCCCTCCTGGGGAGATTGGCCT  
AGATAGCATTCTTAACACTTCCCTCTGCTTTTGCCTCAGTAGCAAGGCTTTCCTAAGCTCCTGGGCAATGGAACA  
TTTATTAGTATTTATTGACAAAAATTTAGTTCTCTGAAATTTTAACTCATATATATGAAAACTTTGTATTCCAT  
CTCTTCTTTTTCATTTACTTGTAGAGCCAAGGAAATGGAATTGAAAGATGATTGCATAAGTAATGATGCCATCCT  
TCTCTCTGGCTGTAGACTGAGGCTTTTCTCTTGTCTCAAGTCAGAGCAGTATTTGTTGATAACCTCTCAATAATG  
TTTGGTTTACATGCCAGTAATTAATAATTCAACATGAAGTTGAATTTGATGAAGTGGTCATCTATCCAAGTAT  
TTGGTTTTTGTTTTTGTTTTGTTTTTGGAGTTGGAGTCTCGCCCTGTCACACAGGCTGGAGTGCAGTGGTG  
CAATCTTGGCTCACTGCAACCTCCGCCACCTGGGCTGGAGCAATTCCTCTGCTCAGCTCCCAAGTAGCTGGAA  
TTACAGGCATGTGTCACCACACCCGGCTAATTTTTGTATTTTAGTAAAGAGCGGTTTCACCATGTTGGCCAGG  
CTGGTCTCGAACCCCTGACCTCAAGTGATCCACCTGC

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**FIGURE 1334**

MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLASNVQRNRLVQHDLQVAKQLQEEDLKAQAQLQK  
RYKDLEQQDCEIAQEIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKRKKHFFPEFPATRAYADSYYYEDGG  
MKPRVMKEAVSTPSRMAHRDQEWYDAEIARKLQEEELLATQVDMRAAQVAQDEEIARLLMAEEKKAYKKAKEREK  
SSLDKRKQDPEWKPKTAKAANSKSKESDEPHHSKNERPARPPPPIMTDGEDADYTHFTNQSSSTRHFSKSESSHK  
GFHYKH

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**FIGURE 1335A**

CGTTGATATCAAAGACAGTTGAAGGAAATGAATTTTGAACCTTCACGGTGTGCCACCCTACAGTACTGCCCTGAC  
CCTTACATCCAGCGTTTCGTAGAAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATGTCC  
CAGAGCACACAGACAAATGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATA  
TGTTTCAGTTTCAGCCATTGACTTGAACCTTTGTGGATGAACCATCAGAAGATGGTGCACAAACAAGATTGAGATT  
AGCATGGACTGTATCCGCATGCAGGACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTC  
CTGAACAGCATGGACCAGCAGATTGAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAGAAC  
AGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCTCCATCACCCGCCATCCCC  
TCCAACACCGACTACCCAGGCCCCGACAGTTTCGACGTGTCCTTCCAGCAGTCGAGCACCGCCAAGTCGGCCACC  
TGGACGTATTCCTACTGAACGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCCATCCAGATCAAGGTGATG  
ACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAGCTGAGCAGCTCAGGAGGTGGTG  
AAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTAACGAGGGACAGATTGCCCTCCTAGTCTAGTTGATTGCGA  
GTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATCACAGGAAGACAGAGTGTGCTGTTGAGGGGATG  
CCACCCAGGTTGGCACTGAATTCACGACAGTCTTGTACAATTCATGTGTAAACAGCAGTTGTGTTGGAGGGATG  
AACCGCCGTCCAATTTTAATCATTGTTACTCTGGAAACCAGAGATGGGCAAGTCCTGGGCCGACGCTGCTTTGAG  
GCCCCGATCTGTGCTTGCACAGGAAGAGACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGAC  
AGTACAAAGAACGGTGATGGTACGAAGCGCCCGTTTCGTACAGAACACACATGGTATCCAGATGACATCCATCAAG  
AAACGAAGATCCCCAGATGATGAACCTGTTATACTTACCAGTGAGGGGCGGTGAGACTTATGAAATGCTGTTGAAG  
ATCAAAGAGTCCCTGGAACCTCATGCAGTACCTTCCCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAG  
CAGCACCAGCACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGTAAACAGCTCCCCACCTCTG  
AACAAATGAACAGCATGAACAAGCTGCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTCACT  
CCTACAACCATTCCTGATGGCATGGGAGCCAAACATTCCTATGATGGGCACCCACATGCCAATGGCTGGAGACATG  
AATGGACTCAGCCCCACCCAGGCACTCCCTCCCCCACTCTCCATGCCATCCACCTCCCACTGTCACACCCCCACCT  
CCGTATCCCACAGATTGCAGCATTGTCAGTTTCTTAGCGAGGTTGGGCTGTTTCATCATGTCTGGACTATTTACG  
ACCCAGGGGTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATCTGGCAAGTCTGAAAATCCCTGAG  
CAATTTGACATGCGATCTGGAAGGGCATCCTGGACCAACCGGAGCTCCACGAATTCCTCCCTTCTCATCTC  
CTGCGGACCCCAAGCAGTGCCCTCTACAGTCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTTATTGATGCT  
GTGCGATTACCCCTCCGCCAGACCATCTCTTTCCCAACCGGAGATGAGTGAATGACTTCAACTTTGACATGGAT  
GCTCGCCGCAATAAGCAACAGCGCATCAAAGAGGAGGGGGAGTGAGCCTCACCATGTGAGCTCTTCTATCCCTC  
TCCTAACTGCCAGCYCCCTAAAAGCACTCCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCTTCTCTCT  
GTCTGATTTCTTAGGGGAAGGAGAAGTAAGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATT  
CTGGCTTTAAGCCTTCAAACCTATAGCTTGCAGAACTGTAGCTGCCATGGCTAGGTAGAAGTGAGCAAAAAAGAG  
TTGGGTGTCTCCTTAAGCTGCAGAGATTCTCATTGACTTTTATAAAGCATGTTTACCCTTATAGTCTAAGACTA  
TATATATAAATGTATAAATATACAGTATAGATTTTTGGGTGGGGGCATTGAGTATTGTTTAAATGTAATTTAA  
ATGAAAGAAAATTGAGTTGCACCTATTGACCAATTTTTAATTTACTTGTGTTTGGATGGCTGTCTATACTCCTTC  
CCTTAAGGGGTATCATGTATGGTGATAGGTATCTAGAGCTTAATGCTACATGTGAGTGACGATGATGTACAGATT  
CTTTCAGTTCTTTGGATTCTAAATACATGCCACATCAAACCTTTGAGTAGATCCATTTCCATTGCTTATTATGTA  
GGTAAGACTGTAGATATGTATTCTTTTCTCAGTGTGGTATATTTTATATTACTGACATTTCTCTAGTGATGAT  
GGTTCACGTTGGGGTGATTTAATCCAGTTATAAGAAGAAGTTCATGTCCAAACGTCCTCTTTAGTTTTTGGTTGG  
GAATGAGGAAAATTCTTAAAGGCCCATAGCAGCCAGTTCAAAAACACCCGACGTCATGTATTGAGCATATCAG  
TAACCCCTTAAATTTAATACCAGATACCTTATCTTACAATATTGATTGGGAAAACATTTGCTGCCATTACAGAG  
GTATTAATAAATAAATTTCACTACTAGATTGACTAACTCAAATACACATTTGCTACTGTTGTAAGAATTCTGATTG  
ATTTGATTGGGATGAATGCCATCTATCTAGTTCTAACAGTGAAGTTTTACTGTCTATTAATATTACGGGTAAATA  
GGAATCATTTCAGAAATGTTGAGTCTGTACTAAACAGTAAGATATCTCAATGAACCATAAATTCACCTTTGTAAAA  
ATCTTTTGAAGCATAGATAATATTGTTTGGTAAATGTTTCTTTTGGTTAAATGTTTCTTTTAAAGACCTCC  
TATTCTATAAACTCTGCATGTAGAGGCTTGTTTACCTTTCTCTCTAAGGTTTACAATAGGAGTGGTGATTG  
AAAAATATAAAATTTATGAGATTGGTTTTCTGTGGCATAAATGCATCACTGTATCATTTTCTTTTAAACGGT  
AAGAGTTTCAGTTTGTGGAAAGTAAGTGTGAGAACCCAGTTTCCGTCATCTCCCTTAGGGACTACCCATAGA  
CATGAAAGGTCCCCACAGAGCAAGAGATAAGTCTTTTCATGGCTGCTGTTGCTTAAACCACTTAAACGAAGAGTTC

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**FIGURE 1335B**

CCTTGAAACTTTGGGAAAACATGTTAATGACAATATTCCAGATCTTTCAGAAATATAACACATTTTTTTCATGC  
ATGCAAATGAGCTCTGAAATCTTCCCATGCATTCTGGTCAAGGGCTGTCATTGCACATAAGCTTCCATTTTAATT  
TTAAAGTGCAAAGGGCCAGCGTGGCTCTAAAAGGTAATGTGTGGATTGCCTCTGAAAAGTGTGTATATATTTTG  
TGTGAAATTGCATACCTTGTATTTTGATTATTTTTTTTTTCTTCTTGGGATAGTGGGATTTCCAGAACCACACTT  
GAAACCTTTTTTATCGTTTTTGTATTTTCATGAAAATACCATTTAGTAAGAATAACCACATCAAATAAGAAATAA  
TGCTACAATTTAAGAGGGGAGGGAAGGGAAAGTTTTTTTTTATTATTTTTTAAATTTTGTATGTTAAAGAGA  
ATGAGTCCTTGATTTCAAAGTTTTGTTGTACTTAAATGGTAATAAGCACTGTAACTTCTGCAACAAGCATGCAG  
CTTTGCAAACCCATTAAGGGGAAGAATGAAAGCTGTTCCCTGGTCCCTAGTAAGAAGACAACTGCTTCCCTTACT  
TTGCTGAGGGTTTGAATAAACCTAGGACTTCCGAGCTATGTCAGTACTATTTCAGGTAACACTAGGGCCTTGAAA  
TTCCTGTACTGTGTCTCATGGATTTGGCACTAGCCAAAGCGAGGCACCCTTACTGGCTTACCTCCTCATGGCAGC  
CTACTCTCCTTGAGTGTATGAGTAGCCAGGGTAAGGGGTAAAAGGATAGTAAGCATAGAAACCACTAGAAAGTGG  
GCTTAATGGAGTTCTTGTGGCCTCAGCTCAATGCAGTTAGCTGAAGAATTGAAAAGTTTTTGTGTTGGAGACGTTT  
ATAAACAGAAATGAAAGCAGAGTTTTTATTAAATCCCTTTTACCTTTTTTTTTTCTTGGTAATCCCCTAAAATAA  
CAGTATGTGGGATATTGAATGTTAAAGGATATTTTTTCTATTATTTTTATAATTGTACAAAATTAAGCAAAT  
GTTAAAAGTTTTATATGCTTTATTAATGTTTTCAAAGGTATTATACATGTGATACATTTTTTAAGCTTCAGTTG  
CTTGTCTTCTGGTACTTTCTGTTATGGGCTTTTGGGGAGCCAGAAGCCAATCTACAATCTCTTTTTGTTTGCCAG  
GACATGCAATAAAATTTAAAAAATAAATAAAACTAATTAAGAAATAAA

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**FIGURE 1336**

MNFETSRCATLQYCPDPYIQRVETPAHFSWKESYYRSTMSQSTQTNEFLSPEVVFQHIWDFLEQPICSVQPIDLN  
FVDEPSEDGATNKIEISMDCIRMQSDLSDFPMWFOYTNLGLLNSMDQQIQNGSSSTSPYNTDHAQNSVTAPSPYA  
QPSSTFDALSPSPAIPSNNDYPGPHSFDVSFQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGAVI  
RAMPVYKKAHVTEVVKRCPNHELSTREFNEGQIAPPSHLIRVEGNSHAQYVEDPITGRQSVLVPYEPPQVGTEFT  
TVLYNFMCNSSCVGGMNRRPILIIIVTLETRDGQVLGRRCFEARICACPGDRKKADEDSIRKQQVSDSTKNGDGTK  
RPFQNTHTGIQMTSIKKRRSPDDELLYLPVRGRETYEMLLKIKESLELMQYLPQHTIETIRQQQQQHQLLQKQ  
TSIQSPSSYGNSSPPLNKMNSMNKLPSVSQLINPQQRNALPTTIPDGMGANIPMMGTHMPMAGDMNGLSPTQAL  
PPPLSMPSTSQCTPPPPYPTDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDLALSLKIQEQRHAIWKG  
ILDHRQLHEFSSPSHLLRTPSSASTVSVGSSETRGERVIDAVRFTLRQTISFPFRDEWNDNFMDARRNKQORI  
KEEGE



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**FIGURE 1337**

CATTTTGCGAAGTTTAACCAACCCGGGTACCGCCGTTCTTGTACCAACCAACTGGTTTTGTAAACAGTTGCGAGAAC  
CTTCTCCTTCTTTTTCTTTTCAACCTTGGATTTAGCGGCTGAGTACTTCCTCTTGTACATGGCCTTTCGGAATC  
CATGGCAGATCGGGAATACCTGCCAATTCCTCTGACAAGGACAGGGTTGCGGCTGCAATGGGGCTTCCCCTTGTT  
GGGCTTTTAGCTTTGAGGTTACCCCTTTTTCACCTTGCCACCAGCATCAACCTTCTTGGCTTCGGGTTCTTCTC  
TTTAG

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**FIGURE 1338**

ATGCCTGCTGCCACGTGGCTGGTCCTCCTCCTGCTGTGGCTGAGCCTTGGGGTGAAGACAGCTTCTCAGATG  
ACCAAGATGGTGTCTGCAGATGGTGTCTGAGGATGGAGAACCCACCAAGCCCCGCTAGGAGCCACCTAGACTGGATG  
CAGAGCATGGAAATAAGCCTCGGTGTGGAGAGGGCCTGTCTCAGGGCCTGGCAGATGTAGGCGATTCTTACCAC  
GTCTCCTTCGCTACCCCGAAAGGCACAATCATAGGCCTTCTCGTCTTTTAAGGGTTTTTACTTCCATGGGGAAC  
TATGTGTTGGATGAGAAAAGTATCCGGGAAGGGGACAGAGGTTAGAAAAGCTCTGCGAGTCTTGGACGCTGGTC  
TGCTTCTTGGCTCACCTGGAAGGTGGACGCTGGCCCCACACATCCCCTCTTAAAGACGCAGGCCGATAGCCAG  
CAGATCCTGGGGCTTGCTGGCCCCAAAGCAGACACTGCGATGACAACGGACGACACAGAAGTGCCCCGCTATGACT  
CTAGCACCGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCCTCAACCCAGCC  
GGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCCTGCAAGAGAGACCAGGAGTTTACAAAA  
ACATCTCCCAACTTCATGGTGTCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGGCAGCCCCGAGGGAGCT  
GGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCAGGGAAGCCATCTTTGACACCCCTTTCACCGATGAC  
AGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACCTCCACAGAAGCTAAGGGCCTG  
TCCTCAGAGAGCAGCGCTCTTCCGACAGCCCCATCCAGTCATCACCCGTCACGGGCCTCAGAGAGCAGCGCC  
TCTTCCGACGGCCCCCATCCAGTCATCACCCGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCAT  
CCAGTCATCACCCGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCGTCAC  
CGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCGTCACGGGCCTCAGAGAGCAGC  
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCC  
CATCCAGTCATCACCCGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCG  
TCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCGTCACGGGCCTCAGAGAGC  
CCCCATCCAGTCATCACCCGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCAC  
CCCTCATGGTCCCCGGGATCTGACGTCACTCTCCTCGCTGAAGCCCTGGTGACTGTACAAACATCGAGGTTATT  
AATTGCAGCATCACAGAAATAGAAACAACGACTTCCAGCATCCCTGGGGCCTCAGACACAGATCTCATCCCCACG  
GAAGGGGTGAAGGCTCTGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAACCACACATCACT  
GAGGTCACAGCCTCTGCCGAGACCCTGTCCACAGCCGGCACCACAGAGTCAGCTGCACCTGATGCCACGGTTGGG  
ACCCCACTCCCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCTCTG  
GTCACAGTTAGCAGGAATCCCCTTGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCA  
GGAGCAGCTCCGGTCTCCATAGAGGCTGGGTCAGCAGTGGGCAAAACAACCTTCTTTGCTGGGAGCTCTGCTTCC  
TCCTACAGCCCCCTCGGAAGCGCCCTCAAGAACTTACCCCTTTCAGAGACACCGACCATGGACATCGCAACCAAG  
GGGCCCTTCCCCACCAGCAGGGACCCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAAC  
AGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAGCCCCAACAGCCACGCCACGACTGCCCGG  
ACGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTTCTCCTCCTGCGGCTGAGTGTGGCTTCCCCG  
GAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCAGGAGAGGCTAACGGACATCAGCTGCAGCCAG  
GCATGTCCCGTATGCCAAAAGAGGGTGTGCCCTAGCCTGGGCCCCACCGACAGACTGCAGCTGCGTTACTGT  
GCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTGACCCAGATGTGGCAACAGGACC  
CTCGCTCACATCCACCGGAGTTTTGTTACATTGTACGTGCTCGAGGACAAGCAGCCGGTAGTATTACCTCTGT  
ATCACAGAAGCTGGCGTGGAGCCCTCCACATGA

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**FIGURE 1339**

MTTDDTEVPAMTLAPGHAALETQTLAETSSRASTPAGPIPEAETRGAKRISPARETRSFTKTSFNFMVLIATSV  
ETSAASGSPEGAGMTTVQTIITGSDPREAIFDTLCTDDISEEAKTLTMDILTILAHSTEAAGLSSESSASSDGPH  
VITPSRASESSASSDGLHPVITPSRASESSASSDGLHPVITPSRASESSASSDGPHVITPSWSPGSDVTLLEA  
LVTVTNIEVINCSITEIETTSSIPGASDLDLIPTEGVKASSTSDPPALPDSTNTKPHITEVTASAETLSTAGTT  
ESAAPDATIGTPLPTNSTIEREVTAPGATTLGALATGNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTT  
SFAGSSASSYSPLAALKNFTPSETLTDDIATKGPFPTSRAPLPSVPPTTTNSS

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**FIGURE 1340A**

ACGCCACCCCTCTTCCTGTCAACAGCCTTTCCTCAGTATCCACAGGTACAGCCACCCCTCTTGCTGTCAAGCAGTG  
CTACCTCAGCTTCCACAGTATCCTCGGACTCCCCTCTGAAGATGGAAACACCAGGAATGACAACACCGTCACTGA  
AGACAGACGGTGGGAGACGCACAGCCACATCACCACCCCCACAACCTCCCAGACCATCATTTCCACCATTCCCA  
GCACTGCCATGCACACCCGCTCCACAGCTGCCCCATCCCCATCCTGCCTGAGAGAGGAGTTTCCCTCTTCCCT  
ATGGGGCAGGCGCCGGGACCTGGAGTTCGTCAAGAGGACCGTGGACTTCACCTCCCCACTCTTCAAGCCGGCGA  
CTGGCTTCCCCCTTGGCTCCTCTCTCCGTGATTCCCTCTACTTCACAGACAATGGCCAGATCATCTTCCCAGAGT  
CAGACTACCAGATTTTCTCTACCCCAACCCACTCCCAACAGGCTTCACAGGCCGGGACCCCTGTGGCCCTGGTGG  
CTCCGTTCTGGGACGATGCTGACTTCTCCACTGGTCGGGGGACCACATTTTATCAGGAATACGAGACGTTCTATG  
GTGAACACAGCCTGCTAGTCCAGCAGGCCGAGTCTTGGATTAGAAAGATGACAAACAACGGGGGCTACAAGGCCA  
GGTGGGCCCTAAAGGTACGTGGGTCAATGCCACGCCTATCCTGCCAGTGGACCCTCGGGAGCAACACCTACC  
AAGCCATCCTCTCCACGGACGGGAGCAGGTCTATGCCCTGTTCTCTACCAGAGCGGTGGGATGCAGTGGGACG  
TGGCCACAGCGCTCAGGCAACCCGGTGTCTATGGGCTTCTCTAGTGGAGATGGCTATTTGAAAACAGCCCACTGA  
TGTCCCAGCCAGTGTGGGAGAGGTATCGCCCTGATAGATTCTGAATTCCAACTCAGGCCTCCAAGGGCTGCAGT  
TCTACAGGCTACACCGGGAAGAAAGGCCCACTACCGCTCTCGAGTGCCTGCAGTGGCTGAAGAGCCAGCCTCGGT  
GGCCAGCTGGGGCTGGAACAGGTCTCCTGCCCTTGTTCCTGGCAGCAGGGACGACGGGACTTACGATTCCAAC  
CCGTACAGATAGGTGCTGGGGCTCGGCAGTAGGCAGCTGTGCAGCTTACCTCTTGGCGAGGAGCGTGTGCT  
GCAGTACGGGCCCCGGGAGAGTTTCGTGAAGCTGGCAGCTGCAGCGTCTTGGCAGTTGGCCAGGAAGTGG  
AGCCACAGAGCTGGTGTCTGCCGTGGAATGACAAGCCCTACCTCTGTGCCCTGTACCAGCAGAGGCGGCCACG  
TGGGCTGTGCTACATAGGCCCCCCACAGCCCGCTGGATGTTTCGGGGACCCCAACATCACCACCTTGGATGGTG  
TCAGTTACACCTTCAATGGGCTGGGGGACTTCTGCTGGTGGGGCCCCAAGACGGGAACCTCCTCTCTCTGCTTC  
AGGGCCGACCCCGAGACTGGCTCAGCCAGGCCACCAACTTCATCGCCTTTGCGGCTCAGTACCGCTCCAGCA  
GCCTGGGCCCCGCTCAGGTCCAATGGCTCCTTGAGCCTCAGCAGCAATCCGTGTCTGCTGGATAACAGACTG  
TGACATTTACGCTGACCATGAAGACGGCGGAGGCCAGGAGACGTTCAACGCCACCGGAGTCTCTGAGCCGCA  
ACGGCTCTGAGGTCTCGGCCAGCTTCGACGGCTGGGCCACCGTCTCGGTGATCGCGCTCTCCAACATCCTCCAG  
CCTCCGCCAGCCTCCCGCCGAGTACCAGAACCGCACGGAGGGGCTCCTGGGGGTCTGGAATAACATCCAGAGG  
ACGACTTCAGGATGCCAATGGCTCCACCATTCCCCCAGGGAGCCCTGAGGAGATGCTTTTCCACTTTGGAATGA  
CCTGGCAGATCAACGGGACAGGCCCTCCTTGGCAAGAGGAATGACCAGCTGCCTTCCAACCTTACCCCTGTTTTCT  
ACTCACAACCTGCAAAAAACAGCTCCTGGGCTGAACATTTGATCTCCAACCTGTGACGGAGATAGCTCATGCATCT  
ATGACACCCCTGGCCCTGCGCAACGCAAGCATCGGACTTCACACGAGGGAAGTCAGTAAAACTACGAGCAGGCGA  
ACGCCACCCCTCAATCAGTACCCGCCCTCCATCAATGGTGGTCTGTGATTGAAGCCTACAAGGGGCAGACCACGC  
TGATTACGTACACCAGCAATGTGAGGATGCCAATTCACGCTCAGAGACAGCTGCACCGACTTGGAGCTCTTTG  
AGAATGGGACGTTGCTGTGGACACCCAAGTCGTGGAGCCATTCACTCTGGAGATTCTAGCAAGAAGTGCCAAGA  
TTGGCTTGGCATCTGCACTCCAGCCAGGACTGTGGTCTGCCATTGCAATGCAGAGAGCCAGTGTTTGTACAATC  
AGACCAGCAGGGTGGGCAACTCCTCCCTGGAGGTGGCTGGCTGCAAGTGTGACGGGGGCACCTTCGGCCGCTACT  
GCGAGGGCTCCGAGGATGCCTGTGAGGAGCCGTGCTTCCCGAGTGTCCACTGCGTTCTGGGAAGGGCTGCGAGG  
CCTGCCCTCCAAACCTGACTGGGGATGGGCGGCACTGTGCGGCTCTGGGGAGCTCTTCTGTGTGAGAACCAGT  
CCTGCCCTGTGAATTACTGCTACAATCAAGGCCACTGCTACATCTCCAGACTCTGGGCTGTACGCCATGTGCA  
CCTGCCCCCAGCCTTCACTGACAGCCGCTGCTTCTGGCTGGGAACAACCTTCACTCCAACCTGTCAACCTAGAAC  
TTCCCTTAAGAGTCAATCAGCTCTTGCTCAGTGAAGAGGAAAATGCCTCCATGGCAGAAGTCAACGCCTCGGTGG  
CATAAGACTGGGGACCCCTGGACATGCGGGCCTTCTCCGCAACAGCCAAGTGGAAACGAATCGATTCTGCAGCAC  
CGGCCTCGGGAAGCCCCATCCAACACTGGATGGTCACTCTCGGAGTTCAGTACCGCCCTCGGGGCCGGTCAATTG  
ACTTCTGAACAACAGCTGTGGCCGCGGTGGTGGAGGCGTTCTTATACCAGTTCCACGGAGGAGTGAGGAGC  
CCAGGAACGACGTGGTCTTCCAGCCCATCTCCGGGAAGACGTGCGCGATGTGACAGCCCTGAACGTGAGCACGC  
TGAAGGCTTACTTCAGATGCGATGGCTACAAGGCTACGACCTGGTCTACAGCCCCAGAGCGGCTTACCTGCG  
TGTCCCCGTGCAGTAGGGGCTACTGTGACCATGGAGGCCAGTGCCAGCACCTGCCAGTGGGCCCCGCTGCAGCT  
GTGTGTCTTCTCCATCTACACGGCCTGGGGCGAGCACTGTGAGCACCTGAGCATGAACTCGACGCTTCTTCG  
GCATCTTCTTTGGGGCCCTGGGCGGCCTCTTGCTGCTGGGGGTGGGACGTTCTGTGCTCTGCGCTTCTGGGGT  
GCTCCGGGGCCAGGTTCTCCTATTCTGAACTCAGCTGAGGCTTGCCTTGAAGGGGCAGCTGTGGCCTAGGCT

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**FIGURE 1340B**

ACCTCAAGACTCACCTCATCCTTACCGCACATTTAAGGCGCCATTGCTTTTGGGAGACTGGAAAAGGGAAGGTGA  
CTGAAGGCTGTCAGGATTCTT

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**FIGURE 1341**

AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCTTTTCTTCTTCTGC  
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGACAACGGACGAC  
ACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTCT  
TCTAGGGCCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAAATTTCCCTGCAAGA  
GAGACCAGGAGTTTCAAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCC  
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT  
GACACCCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC  
TCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCA  
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGC  
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCCTCTTCCGACGGCCCC  
CATCCAGTCATCACCCCGTCATGGTCCCCGGGATCTGATGTCACTCTCCTCGCTGAAGCCCCCTGGTGACTGTAC  
AAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACAACCTCCAGCATCCCTGGGGCTCAGACAT  
AGATCTCATCCCCACGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGC  
AAAACACACATCACTGAGGTACAGCCTCTGCCGAGACCCTGTCTCAGCCCTCTCTGTTGAGACACCAAGTTA  
CGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAACAACCTCCTTTGCTGG  
GAGCTCTGCTTCCCTCTACAGCCCTCGGAAGCCGCCCTCAAGAACTTCACCCCTTCAGAGACACCGACCATGGA  
CATCGCAACCAAGGGGCCCTTCCCCACCAGCAGGGACCCCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAG  
CCGAGGGACGAACAGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAGCCCCAACAGCCACGCC  
CACGACTGCCCGGACGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTTCTCTCCTGCGGCTGAG  
TGTGGCTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACCGGGAACCTCA  
CGCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTGAGGAGAGGCTAACGGACATCAGCTGCAGCCAGGCA  
TGTCCCGTATGCCAAAAGAGGGTGCTGCCCTAGCCTGGGCCCCCACCAGACAGCTGCAGCTGCGTTACTGTGCT  
GAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCAGATGTGGCAACAGGACCCCTC  
GCTCACATCCACCGAGTGTATGTATGGGGAGGGGCTTACCTGTTCCAGAGGTGTCCTTGACTCACCTTGGC  
ACATGTTCTGTGTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCCTGCATTAAATCACTCA  
GTGTGGCCCCAG

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**FIGURE 1342**

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHAALETQTLAETSSRASTPAGPI  
PEAETRGAKRISPAARETRSFTTKTSPNFMVLIATSVETSAASGSPEGAGMTTVQTITGSDPEEAIFDTLCTDDSSSE  
EAKTLTMDILTTLAHTSTEAKGLSSESSASSDGPHPVITPSRASESSASSDGPHPVITPSRASESSASSDGPHPVIT  
TPSRASESSASSDGPHPVITPSWSPGSDVTLAEALVTVTNIEVINCSITEIETTTSSIPGASDIDLIPTEGVKA  
SSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPHATVGTPLPTNSATEREVTAPGATTLSGALVTVSR  
NPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTTSFAGSSASSYSPSEALKNFPTSETPTMDIATKGPFPPT  
SRDPLPSVPPTTTNSSRGTNSTLAKITTSAKTTMKPPTATPTTARTRPTTDVSAGENGGFLLRLSVASPEDLTD  
PRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

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**FIGURE 1343**

GGGCCGCACTGGACCAGGGATGAGAGTGGGTGCCCGGGACTCGCCTATACTGCCTGGGGGTGCAGCCCGCACTCC  
TCACTATAGTCAAATCGACTATGCGTGCTTTCCAGGGGGCCCGGAGAGGACTCCATGGGGAGGGATGCTTACCTT  
GTGGGCTTTGGAATATAAGCCCTTTCATCTTCTCCGCTGGTCCCTACACAGTTGGCAAGGCAGGTATTGTGACCC  
TGTTTTCTCAGGTGAGGACATGGAGGCTGGGAGGGGTCTAGAGACTGGCCTGGCTAGTAGGAGGCTGAGTCAGGA  
TTTGAACCAGCAGATCATCTGACCCAGAGCCGGTCGTGGCGGCACAGCGGGAGCTGCAACCGAGGCTCTTGAC  
TCCTGCCTCGTCATTCCCTGAGGTCCACAGGACAACCAGCTGGGGACCTGGAGCCCCATCCTGACGTCTCGGGGA  
GAGGTGCTAGGCCCCCTTTTGGGTCTATGAGCTACTTTTGGGCCAGTGGAGCCGGGTAAAGACCATCTCAAACCT  
GTGCCAGGGGAGGTGAGACTCCAAGAGCGCCACCTTTGGGCTTCCAGCTGTGTGGGCTGCACCAAGAAGGCTCAG  
AGAATTAGGGGGTTCGTATTTGATCCTTTTCCCTTCCAAGACTGGGATTACCAGATAAAACACAGGGCATCCAGTT  
ACATTTGAATTTGAGTAACAATTTTTTTTTTAAAGTGAAGTACGTAGCCAATATTGCATGAGAAATACTCATGCT  
AAAAAGTTATTGCTCATTTATCTGAACTGCGAGTTCAAATTTAACCAGGTACCCTGTATTTTTATTGTCTAAATC  
TAGAAACCTCTCCAAGAGACTCCTTGGCCCACTCACAGGGAGAGCCCGATCTCCCTCTAGACAGGGGAGGCCCC  
CTTCTCAGGCCAGAAAAGATCTTGTAGTAACTACTCAAGAGGCTGAGGCAGGAGGATCGCTTGAGCCAGGAA  
TTCAAGACCTGCCTGGGCAACAGAGCAAGACCTGTCTCTAGGGAAGATATCCTACCGTAGCCTCCCTCGGGGAC  
TCCCATTCCTCCACCTCAGGGCCAGTCAAGGGAACAGGCCTCTGCTCTGGGCAGAAGTGCCGGCAGCCGCTCTC  
TGAAAAGCTAGGTGTTGCCTCAGGGGCTCCCGGTGTCTGTGGAAAATGCCTGGCCACGGTTTCCATGGTTCCCA  
GGCTCCAACCTGCAGTTCTCGGCCCTCATTAGGAGGGGCTCGGCAGGGTGGGGGTGCCGTCTTTCCCTTGC  
CGGAGCCCAAGGACTCTGCCGGCTCCCTCGCTTTGGCAGCAGCACTGCCACCCGTCTCTGAGGTTCCCCCG  
CCTCAATCCACCCAGCTACCCGAAAGGCACAATCATAGGCCTTCTCGTCTTTTAAAGGGTTTTTACTTCCATG  
GGGAATATGTGTTGGATGAGAAAAGTACCCGGGGAAGGCACAGAGGTTTCAAGAGCTCTGCGAGTCTTGACG  
CTGGTCTGCCTTCTTGGCTCACCTTGAAGGTGACGCTGGCCCCACACATCCCTCTTAAAGACAGCAGCCGAT  
AGCCAGCAGATCCTGGGGCTTGCTGGCCCCAAGTGAGTTGTAGGGTTTCAAGAGACGCCAGTCATGGCAACCCC  
AGCTCCATGGCTGCCACACAGGCTGGGCTTCCAGGACTGCCCTCTTGTTCGCTTATGTAGATGAAAAATG  
AGGTAACGGCACTCCCTTGCCCCACCTCTCCAGAAAGTGCCAGGGTGTAATGCAATAGCTTGTGTGAAGTC  
CACTGGAACCCAGGCTCACCAAGTCAGTCTTAACCAACACAGGCCCCAGCACC CGCAGAGCACATGCGATGA  
CAACGGACGACACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAACCTCAAACGCTGAGCG  
CTGAGACCTCTCTAGGGCTCAACCCAGCCGGCCCCATCCAGAAAGCAGAGACCAGGGGAGCCAAAGAGAATTT  
CCCCTGCAAGAGAGACCAGGAGTTTCAAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGA  
CATCAGCCGCCAGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTTCAGACCATCACAGGCAGTGATCCCGAGG  
AAGCCATCTTTGACACCTTTTGACCCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACAT  
TGGTCTACACCTCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAGTCA  
TCACCCGTCACGGGCCTCAGAGAGCAGGCCTTCTCCGACGGCCCCCATCCAGTCATACCCCGTCACGGGCTCAGAGAGCAGCGCTCTT  
CCGACGGCCCCCATCCAGTCATACCCCGTCACGGGCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAG  
TCATACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTCATGGT  
CCCCGGGATCTGATGTCACTCTCTCGCTGAAGCCCTGGTGACTGTACAAACATCGAGGTTATTAATTGCAGC  
ATCACAGAAATAGAAACAACAACCTTCCAGCATCCTGGGGCTCAGACATAGATCTCATCCCCACGGAAGGGGTG  
AAGGCCTCGTCCACCTCCGATCCACAGCTCTGCCTGACTCCACTGAAGCAAACACACATCACTGAGGTACA  
GCCTCTGCCGAGACCCTGTCCACAGCCGGCACCAAGAGTCAGCTGCACCTCATGCCACGGTTGGGACCCCACTC  
CCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCTCTGGTCACAGTT  
AGCAGGAATCCCCTGGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCT  
CCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCTTTGCTGGGAGCTCTGCTTCTCTACAGC  
CCCTCGGAAGCCGCCCTCAAGAACTTACCCCTTCAAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTC  
CCCACAGCAGGGACCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTA  
GCCAAGATACAACCTCAGCGAAGACCAGATGAAGCCCCATCTCTACTAAAAATACAAAAATTAGCTGGGTGTG  
GTGGCATGCACCTGTAGTCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCACTTGCAACAGGGAGGTGGAGGTT  
GCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAG



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**FIGURE 1344**

CTTTTGAGCAGGAGTCCGGGCCCTCGTGTACCGCTCTGAAGTCAAGGAGAGGCTGGGAGGCGGCAGAATGCAGC  
CAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAGCTGCAACAGTACTTCCTGCGGCTCCGAG  
ATGACCTCAACGTCAACCGCCTGTCCCACTTTGAGTACGTCAAGAATGAGGACCTGGAGAAGATCGGCATGGGTC  
GGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCCTTGTGCAAACGCAAGTCGTGGATGAGTA  
AGGTGTTTCACTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTTCCGGAAGACCTCGC  
CCGCCCCCTGGGGGCCAGCAGGGGAGGGGCCCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCC  
TCCTGGAGAAGCTGGGTGATGGTTCCTTTGGCGTGGTGCGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGG  
TGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCTGAGCCAGCCAGAAGCCATGGACGACTTCATCCGGGAGG  
TCAATGCCATGCACCTCGCTCGACCACCGAAACCTCATCCGCCTCTACGGGGTGGTGCTACGCCGCCCATGAAGA  
TGGCATCAGTTTCCCAAATTGCCTCGAGGGAGAGGCTGAGAACTGCAGGACTCCTAGAGGTCCCCAGACAGCA  
GGCCAGGAAGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGTACGTAAGCACCAGGGCCACTTCCT  
CCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTGGAGTCCAAGCGCTTTATTCA  
CCGTGACCTGGCTGCCCCGAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATCGGGGACTTTGGGCTGATGCG  
AGCACTACCTCAGAATGACGACCATTACGTATGCAGGAACATCGCAAGGTGCCCTTCGCCTGGTGTGCCCCGA  
GAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGAC

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**FIGURE 1345**

TGTCCTTCAGTGAAATGATACCGGTCCCCACTGCCCAGCTCACCTCCCGGGGCTGCAGGAGGCACCGGAGATAATG  
GCTGTAGAGGGTCTTGTAACCTGAACATTGCTTGCAAACATAAGGAATTCTAGTTACTGGGAGGAAGCACAGGGC  
AGAGGCCAGAAAGAGGCCCTCAGATTGAGGCACCCTAGCCCAGACGGATAAGGATCCACCAGCTCTGGGGGCGTG  
AGACCCAAGCTGGCAAGAATCTGCAATCTGGAGCCAAGGCTGTGGGTGCCTCAGTGGAGGCCGAGTCAGACCGAC  
GTGGCCAGCTTTGACCCTCATGGCCTCCTTTCTTCTGTCCCTTGACCTTCGGCTCCTCCCTGTCCACCCTGGCCT  
CCGAGTCTCCTCCACTTTTCTTCCGTCTCAGCCCTCAGCTCTAGGCGCCCTCCAGAGACCCAGCTGTCTTCCC  
AGGCCCCCTTCCCAGCAAGGACTAGCTTCATCTGAACACACACACTCACGGTTCAACCTCAGACTAAAAATTAT  
CCTCTCCCCTGGGCAGGATGAAGGGCAGCCGACTCCCTGGTGAGGGTGGAGACAGACAGCACCAAAATGGTCAGGC  
CAGAGAAGGGGCCAGGGCTAAAAATGGACAAGGAGGTGTCTGTGGAGGGCCCTGCGGCTCCATCGATGCGGGT  
AGGGCTGGAGTCTGCGGGGTGGCGGGTGCCAGGAAGGGAGGGTGGGGCAGGACTGGGAGGAGACTCCGACCTTGGC  
TGGGCGGTGCCCTCCTCTCCACACAGCTGGGTGTGGGGCCGCTCAGCCACAGGCTGCATGCCTGTGCGTCTCTT  
TCTGGCACCTCCTTGAGGCCAGCATCAGGCTTTGGGTTTATGTTTGGGGGTGTGCCCTGGACGGAGTGTGGGCC  
TCCAGCCAGGCTGCCCCACTGACAGTTTGGCAAAACCAGGACCTATCTGGAAGCCGAAGCCGGGGATCACCAGGT  
GGACCCAGCGGGGTGGGACTGAGTGACTGACCTGGGGTGTGGATTCCATCTGGCCCCCGGCTGCCTTCAAACA  
GGTGTTCAGTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTCCGGAAGACCTCGCC  
CGCCCCCTGGGGGCCAGCAGGGGAGGGGCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCCT  
CCTGGAGAAGCTGGGTGATGGTTCCCTTGGCGTGGTGCCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGGT  
GAGCTCTCTGTGTCCTGCCAGCGCAGCAGAGGCATGGGACCCGGGGCTGGTAGTGGCTCTTCTGCCCCCAACCAG  
GGTGTGGATGGGACTGGGGATGCGTCACAGTGTGGCTCATCCAGAGTCCGTGCTCAGGATTTTGGGGTTTTAT  
TTATTTATTTATTTTGGAGATGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTAGGCACGATCTCGGCTTCC  
TGCAACCTCCACTTTCCGGGTTCAGCAATCCTCCTGCCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCAC  
CACCACACICAGTTAATTTTGTATTTTAGTAGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTC  
CTGACCTCAGATGATCTGCCCCACTTTAGCCTCCCAAAGTGCTTGGATTACAGGTGTGAGCCACCACGTCCAGCCC  
ATGCTCAGGTTTAACTAAGCACATTTATTATTTCAACTATAAAAAATAATTTATTATAAAAGTTTGGAAAGTATTT  
G

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**FIGURE 1346**

MRVRAGVCGVAGAGREGGAGLGGDSDLGWAVPSLSTQLGVGPLSHRLHACRSLSGTLLEASIRLWVHVWGALDG  
VWASSQAAPLTVWQNQDLSGSRSRGSPGGPSGVGLSD

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**FIGURE 1347**

CATCCTCCCAGAGAAGGGGCCCCGAATCGCCGAAGGGCACTGCTTCGCCGATTTAAAAACAAAGCAAAAAGCCCC  
GCATCTGCATCAGGAAGGCGCCTCTGCCTACTCTGGGAGAGAGAAGGGCACCCCTCCCCCTTGCTACGTAGTCGT  
CTGCGGAGGCACAACCGTGGAACGGGAGCCGCCACCACCACCACCGCTCAAACCTCTCGGCACTGGCTGGGGTA  
CAGGGAGCGGCTGCGAGCGAATGGGATAAGCGAGCCTCCAGTTCCCCGTCTTCCAGAGCAAGTGGCTTCAGTGAT  
ATCCAAGCGCCCTTCCAGCACCCATTCCCTGCCTCGCCAGCAGGCACCGGGGCCCCACTTGGCGTTTGCGGATTT  
CAGCTGAATGGGAGGCGACACAATGAGACAAGAGCAAACCGTTTTCTCAGCGTTCTTGCCAGGGCCTTCCCGTCT  
CGCGGGCCCGCCTCCCTCACC CGAAGTGCTGGTCCCGGTACTGGCTCAGCTCCACGTAGGAGTCGCTGCGCAGC  
GCCTTCAGGAGGCCACCCGACATAGTGCAGAGAAGCGGACCACAATGCGGCGACTCCCGGCACGAGGCTGCGTCC  
GCGATGGCGGAAGCGGAAACGCGCGGAGGCGAGCATCTCATTGGACCCAATCCGAGGGCGGCAGTGTCTCATCA  
AGCTGCGCGGGGGCATAGACGTCCGGGTGCGGGCGCCGCGGGGCGGAAGACGAGGGCGGCGAGGTGCGGTTCCGGG  
CGCTTGGAGAAGATGGTGTCTGCGGCGGCTGCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTCA  
GAGTCGCGGCCTATCCGACGTGCGGCGCAGCTCACGGCCTTCGCACTGCTGCAGGCCAGCTGCGGGGCCAGGAC  
GCGGCCCCGCGCCTGCAGGACCTCGCGGCTGGGCCCCGTGGGCTCCCTGTGCCGCGCGCTGAGCGATTTAGAGAC  
GCCTTCACCCAGGAGCTACGCCGCGGCTCCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGC  
GCAAACATTTAATCCTGGGCTGTGCGGGGCCGAGGCTGCTTGCTTTTCCTTCCGGGCTCTACAGTGGCATCAATG  
TGGAGGGGTCAATCCGGGCACTGCGCGCGGCTTCGAATCCCGACTGGGATTGTTGGCCTGCAGACATCCCACGCA  
TAAGAGCCTAGGCCAGACCGCCGCTCCGTTGAAGTCTTGTGATTGGACAAGACACAGTGTGGAGAAAGACCCCT  
AAGCCTAACAGAGATGAAGGTAGGCTGGGTCCAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGC  
CTTTCCTCTGCAAGTGGGACTGAACTCTTGACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTC  
CAGGGACGATATGGATGAAAAGACAACCCTACAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAG  
GCATGAGTGTGATACTTCTCAGGCAAGATGTGTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACAC  
GTATTTTATGAAATGA

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**FIGURE 1348**

CCGGCTGCTGCGGACCTCCTCGGACCCGGACCCAGCCCCAGCCCGGCCCCAGCCAGCCCCGACGGCGCCATGCGG  
GGTCCGAGCGGGGCTCTGTGGCTGCTCCTGGCTCTGCGCACCGTGCTCGGTGGCATGGAGGTGCGGTGGTGCGCC  
ACCTCGGACCCAGAGCAGCACAAGTGCGGCAACATGAGCGAGGCCCTTCGGGGAAGCGGGCATCCAGCCCTCCCTC  
CTCTGCGTCCGGGGCACCTCCGCCGACCACTGCGTCCAGCTCATCGCGGCCCCAGGAGGCTGACGCCATCACTCTG  
GATGGAGGAGCCATCTATGAGGCGGGAAAGGAGCACGGCCTGAAGCCGGTGGTGGGCGAAGTGTACGATCAAGAG  
GTCGGTACCTCCTATTACGCCGTGGCTGTGGTCAGGAGGAGCTCCCATGTGACCATTGACACCCTGAAAGGCGTG  
AAGTCCTGCCACACGGGCATCAATCGCACAGTGGGCTGGAACGTGCCCCGTGGGCTACCTGGTGGAGAGCGGCCGC  
CTCTCGGTGATGGGCTGCGATGTACTCAAAGCTGTGACGCACTATTTTGGGGGCAGCTGCGTCCCGGGGGCAGGA  
GAGACCAGTTACTCTGAGTCCCTCTGTGCGCTCTGACAGGGGTGACAGCTCTGGGGAAGGGGTGTGTGACAAGAGC  
CCCCTGGAGAGATACTACGACTACAGCGGGGCCCTTCGGTGCCCTGGCGGAAGGGGCAGGGGACGTGGCTTTTGTG  
AAGCACAGCACGGTACTGGAGAACACGGATGAAAAGTCCATCACGAAGGCAAACATGGACCAGATCTGAGGAGGAA  
GAAGGCGAGTGCCCTGCACACGAGGAAGCACGTAGGACGATGCGCTCTAGTGCTGGGCAAGCCTGGAATGGGCT  
CCCGTTACAGGCCCCAGGACGAGTCTGACAAAGGAGAATTTGGAAAACGGGCAAAGAGTAGGGATATGTTGGGT  
TAAGAATCAGCTCTTTCAAACTGGGGTTTTTTTTTGGGATGGGGGTCTCACCATGTTGCCAGGCTGGTCTCAA  
CCCCAGCCTCAACTGATCCTCGCATCTCAGCCTCCTGAGTAGCTGGGATGACAGGCGTGACCTGGCAGCTTTT  
TCAAAGTGTGATGGTAATCTGAGGCAATCTAAGGGAGTCATTTTTTAAGTGACTTTATACAGAAAGATTGGTAA  
GAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGACTTTCATTGTTCTTGGCTGAGGAG  
AAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTTGICTGTGGGAAGGCAAATGATGCCCCAGAGCTCTA  
ACCAAAGTTTTTGCAGCCGCCGAAAAACAGGAAAGTTGGGAAGCGGGGGTAGGACTACACTGAATCATTAAACAGT  
GCTGTAAACTACCATGTGGCCATTAACAATGACCTTTAGGGAGTTTCCTAAACGATCACTCTGGTGCGGGTGTT  
TGGTTTTGTTTTAAATAGCTTTGCAGTGAAAGCTTTCATGACCATACAAATTATCTTTTTCTTCCTATTTCCT  
TGTAGAGGTTTTTTTCTCCTTGCTTAAGGTCATAAAATATTGTTATGTGGGAAAAAAAAAAAAAAAAAAAAA  
A

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**FIGURE 1349**

MRGPGSALWLLLALRTVLGGMEVRWCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTSADHCVQLIAAQEADAI  
TLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVRRSSHVTIDTLKGVKSCHTGINRTVGWNVPVGYLVES  
GRLSVMGCDVLKAVSDYFGGSCVPGAGETSYSESLCRLCRGDSSGEGVCDKSPLERYDYSGAFRCLAEGAGDVA  
FVKHSTVLENTDESPSRRQITWRSEEEEGECPAHEEARRTMRSSAGQAWKWAPVHRPQDESDKGEFGKRAKSRDM  
LG

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**FIGURE 1350**

GGGCGCCGCGGGGCGGAAGACGAGGGCGGGCAGGTCGGGTTCGGGGCGCTTGGAGAAGATGGTGCTGCGGCGGCT  
GCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTTCAGAGTCGCGGCCTATCCGACGTGCGGGCGCA  
GCTCACGGCCTTCGCACTGCTGCAGGCCCAGCTGCGGGGCCAGGACGCGGCCCGCCGCCTGCAGGACCTCGCGGC  
TGGGCCCGTGGGCTCCCTGTGCCGCCGCGCTGAGCGATTTAGAGACGCCTTCACCCAGGAGCTACGCCGCGGCCT  
CCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGCGCAAACATTTAATCCTGGGCTGTGCGGGG  
CCGAGGCCGCTTGCTTTTCCTTCCGGGCTCTACAGTGGCATCAATGTGGAGGGGTCATTCCGGGCACTGCGCGCG  
GCTTCGAATCCCGACTGGGATTGTTGGCTGCAGACATCCACGCATAAGAGCCTAGGCCAGACCGCCCGCTCCG  
TTGAAGTCTTGTGATTGGACAAGACACAGTGTGGAGACAGCCCTAAGCCTAACAGAGATGAAGGTAGGCTGGGTC  
CAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGCCTTTCTCTGCAAGTGGGACTGAAACTCTTG  
ACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTCCAGGGACGATATGGATGAAAAGACAACCCTA  
CAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAGGCATGAGTGTGATACTTCTCAGGCAAGATGT  
GTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACACGTATTTTATGAAATGA

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**FIGURE 1351**

MVLRRLLAALLHSPQLVERLSESRPIRRAAQLTAFALLQAQLRGQDAARRLQDLAAGPVGSLCRRRAERFRDAFTQ  
ELRRGLRGRSGPPPGSQRGPGANI



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**FIGURE 1352**

ATGCCTGTCTTCATCTTGAAAGAAAAGCTCCAGGTCCCTTCTCCAGCCACCCAGCCCCAAGATGGTGATGCTGCT  
GCTGCTGCTTTCCGCACTGGCTGGCCTCTTCGGTGCGGCAGAGGGACAAGCATTTTCATCTTGGGAAGTGCCCCAA  
TCCTCCGGTGCAGGAGAATTTTGACGTGAATAAGTATCTCGGAAGATGGTACGAAATTGAGAAGATCCCAACAAC  
CTTTGAGAATGGACGCTGCATCCAGGCCAACTACTCACTAATGGAAAACGGAAAGATCAAAGTGTTAAACCAGGA  
GTTGAGAGCTGATGGAAGTGTGAATCAAATCGAAGGTGAAGCCACCCAGTTAACCTCACAGAGCCTGCCAAGCT  
GGAAGTTAAGTTTTCCTGGTTTATGCCATCGGCACCGTACTGGATCCTGGCCACCGACTATGAGAAGTATGCCCT  
CGTGATTCCCTGTACCTGCATCATCCAACTTTTTCACGTGGATTTTGCTTGGATCTTGGCAAGAAACCCTAATCT  
CCCTCCAGAAACAGTGGACTCTCTAAAAAATATCCTGACTTCTAATAACATTGATGTCAAGAAAATGACGGTCAC  
AGACCAGGTGAACTGCCCCAAGCTCTCGTAACCAGGTTCTACAGGGAGGCTGCACCCACTCCATGTTACTTCTGC  
TTCGCTTTCCCTACCCCAACCCCCCCCCATAAAGACAAACCAATCAACCACGACAAAGGAAGTTGACCTAAACAT  
GTAACCATGCCCTACCCTGTTACCTTGCTAGCTGCAAAATAAACTTGTTGCTGACCTGC

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**FIGURE 1353**

MVMLLLLLSALAGLFGAEGQAFHLGKCPNPPVQENFDVNKYLGRWYEIEKIPTTFENGRCIQANYSLMENGKIK  
VLNQELRADGTVNQIEGEATPVNLTEPAKLEVKFSWFMPSPAPYWILATDYENYALVYSCTCIIQLFHVDFAWILA  
RNPNLPPETVDSLKNILTSNNIDVKKMTVTDQVNCPKLS

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**FIGURE 1354**

GC GCGAGTGGGAGGTGGCAGGCCTGCGACTCCGGCCTTGTCGCGCCCGCTCTCGGCGCGACGCTCTCCAGCCATG

AACCGGTTTGGTACCCGGTTGGTGGGAGCCACGGCGACTTCTTCGCCGCCGCCGAAGGCCCGCAGCAATGAAAAAC  
CTCGACAAAATAGATATGTCTTTGGATGATATCATCAAGTTGAATCGAAAGGAAGGGAAGAAGCAGAATTTTCCA  
AGACTAAATAGAAGACTCCTCCAGCAAAGTGGTGGCCAGCAATTCAGGATGAGAGTGCGATGGGGAATCCAACAG  
AATTCTGGTTTTGGTAAGACTAGTCTGAATCATAGAGGAAGAGTAATGCCCTGGAAAGAGACGTCCTAATGGAGTT  
ATCACTGGCCTTGCAGCTAGGAAAACGACTGGAATTCGAAAAGGAATTAGTCCTATGAATCGTCCACCTCTAAGT  
GACAAGAATATAGAACAATATTTTCCAGTGTTAAAAAGGAAGGCAAACCTTCTGAGACAAAATGAAGGGCAGAGG  
AAACCAGTAGCAGTTCTCAAGAGACCTAGCCAGCTAAGCAGAAAAATAACATTCCAGCTAATTTTACCAGGAGT  
GGAAATAAATTAATCATCAGAAAGATACTCGTCAGGCACTTTTCTTTTCAGAAGAGGCCCTGAAGGTGCAGGCC  
CAGTTGAATACAGAACAACTGCTAGACGATGTAGTAGCAAAGAGAAGTTCGTCATGGCGGACTTCCACCACAAAT  
GGAGGGATTTTACTGTATCTATTGACAATCCTGGAGCAGTGCAATGCCAGTAACTCAGAAACCACGATTAACT  
CGTACTGCTGTACCTTCATTTTAAACAAAGCGGGAGCAAAGTGACGTCAAGAAAGTTCTTAAAGTGTTCCTCTG  
CAGTTTGACATAAACAGTGTGCGAAAACAGACAGGGATGACGTTGAATGAGCGGTTTGGGATCCTGAAGGAACAA  
AGAGCCACTCTCACATACAACAAAGGGGGAAGCCGCTTTGTCACCGTGGGATAGGTCTCCATGTCAAAGGAACCTT  
TGAGTGATGACTCTGAGAAGTTGAATTGCTTGAAGAGTTCATCAGGAAATCAAGAACTTTACTTCAAAAATAT  
TCACAAGGCTAAATAACTCTTATTTTATTTTGAAGGTTTTTTTTTAAAAAAGGATATAAATAATG  
CCCTGAAAGAATAATAGGGATTATACCTGTCTGTTCTTAAAGATTTTCATGGTTGGCTCAGACAGAACATCATCT  
GTTTGACTTCTTTGGTTCTCATGCAGCAGAAGGAAGACAGAAGGATAGAAATGATTATTTTATGATAGCGGT  
ATTGAGGATCTCATCACCTTTGCCGTGTTTTAGACTTTGTCATGGTAAATCCTGGTCTTCATAAACATGAGTAG  
GTCCCTTGGTTGCTGTCACTTGCCCTTTAATAGTGTTGATGTAGTCAGTGCCGTGCTTTTCTTCATTAGAGAC  
ACAGAACAAATGTATTAGAATTTCCAGCTGTGGGTTTGAAGACTTAGGGGGACATCCAGAACGTGTGCTTCTCTTTC  
AGACGGTGTAAGTCCCCTGGAATTACACAGCTTTAGTGCTGAGCTTTTAAACAGGAAATGTGGCCCTAGGTATTA  
GTCTTAGTTTTAAATGTGGTGTTTAGAGACTGTAAATGCATATTACAAAGTTATCTGATAGGGCCTTGGAGGA  
GAAGGTCCAGTTTTAAAAAATGACAGTTTGTGTTTAAATAATGAAGGCATGAGAGGAAGTAAGTAGCAAGTTGAA  
GGACAGGTAGTTGAGATGAACACTTCAAAACCCTGGTTATAGATGTACTGTTGGATGTAGCATAGTCTTGAGT  
CTAGCGTCCACAAAGAATTATTCAAATGATATTTAGAAGAATTATAACTATTACATTGAATGGAGTCCCTTGAT  
ATTTTGATAGTAAATTAATAGCCATAAAGTCCCTAGACTTCTTATTGAAGTTAAAAATTTCTTATTGAAAAGTT  
GAAATTTATGAGCTTTGAAGATTGCTAAATTAATAATTTATAGCTCCAAAAACAAAAATATACTTGATATGTC  
ACAGAGAAAAAATGCAAAATTTATAATAGAGTTACATTAACCTTGTTGTTTACCTTTCACTGATTCTTATAT  
GGTATAAATTAAGTTACGGCATTATGCGGAGAAAAGGCCCTCCCAACCGACCCGCCACCTGCCACCTCTGACG  
GAGTGGGAGAAGTTAGTCTGTGCTAAGATAGTACTGAGTCCCGCAGATGTTGTATACTGTAAATTACAGTATAATG  
CCAAATGCAGCAAAATCTCCAGCTGTACGTTACAAGTTTGGTCAATTTGAAGCTTGACATTTTAGTTTGCCATT  
ATGTTAAAAACATCTAAATAGGTGTTAGTTTCTCAGGAGTAGATTGTTAGTGTGACTTTTCTGTAAAGCAGAC  
ATCGTTCTTGCCCTGCCCTGCATTGTATACTAGATTTCATTGTTGCTCTCATGCTTCTTGAGTTGCTTCATGGT  
TTATGCTCGCCATGGAAAGCTATCAGTAACAGTTTCATGCTTATACCAAGAATTAAATCTGATCTTAAATATCT  
GATATTTTCTGCTGCTACTGATAAGGGATTATTGGAAGTCAGTCACAGAATTTGGAAATAAATTCTAGTCT  
CTCCTTAGCTATTTGATGCTTTTCAATATAGCCAAGAAGTCAATGCAAAACATTTTTCAGGATGAATGCCTGT  
ATTTGGTCTAGGAACAGTACATTTTAGTCTGATTTAGAATTACTGGTAGCTTATTTTAAAGCAAGGAAAAGCAGC  
TGAGCTCAAGTTTGCTGTCTTTAGAATGTTTTGTGAAAATATGGTATAAAGGTGTTTTTCAATTTCTGTCTTAC  
CTATTATTGTATAGAGCTATTTCATGCCATTTTGGGAAAACCTTAAAAATGCCCCAAATACTGACATTGAGTG  
CATTAATAACAAATTAATCTTTGATACATTAACTTTTATTCTTCATGCATCTGTAATTTAATTTAAGTATAAT  
GTTTTGCCCTTTGGTACAACTAAATTAATACTCTTGGTGGTCACATATTGTATATAAAACAAACAATATGCTTTGT  
TGAAGGAAAATTTCTTTATTGGAATGTGGTTGTAATCCTGTTTCAGTTCTTAAAGTTTCGGTTTTTTTTAAAAAC  
AGGATGCAACTTAACTTTTCTTTGCATCAAGGTATATGCAAAACATTGGTGCCGTGCATCACCAAATGAAAGTT  
TGTATTTAACGAGGAGTGCTTTACACTGTACTTTTTGGTGTTTTTTGGAAAAGTTACATTTAGATCTATTCTGA  
AGCTGTTCAATTTTAAACAAATAAATGTTACAGGTTTACATGATTTATTCTCAGCTCTAAAAAAGGAAAAA  
AAA

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**FIGURE 1355**

MNRFGTRLVGATATSSPPPKARSNENLDKIDMSLDDI IKLNRKEGKKQNFPRLNRRLLQQSGAQQFRMRVRWGIQ  
QNSGFGKTSLNHRGRVMPGKRRPNGVITGLAARKTTGIRKGISPMNRPPLSDKNIEQYFPVLKRKANLLRQNEGO  
RKPVAVLKRPSQLSRKNNIPANFTRSGNKLNHQKDTRQATFLFRRGLKVQAQLNTEQLLDDVAKRTRQWRTSTT  
NGGILTVSIDNPGAVQCPVTQKPRLTRTAVPSFLTKEQSDVKKVPKGVPLQFDINSVGKQTGMTLNERFGILKE  
QRATLTYNKGGSRFVTVG

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**FIGURE 1356**

AATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCGTGGAAC TGCTCAGGCCACCAAGGGTATGCATA  
TACGAAAAGCCACGAAGTATCTGAAAGATGTCACCTTTACAGAAACAGCGTGTACCATTCCGACGTTACAATGATG  
GAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCAGAAAGAGTGCTGAATTCT  
CTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTGAGATGTGCCGCCGGACCTACAGAGCTCATGGTCGGATT  
AACCATAACATGAGCTCTCCCTGCCACATTGAGATGATCCTTATGGAAAAGGAACAGATTGTTCTAAACCAGAA  
GAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACTTACGGCACGGGAGTAAATT  
CAGCATTAAAATAAATGTAATTAAAAGG

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**FIGURE 1357**

MSLYRNSAYHSDVTMVELASVRRPSSGAGHKVGGPKRVLNSLVIEYIQVNKAPKMLRRTYRAHGRINSYMSSPWH  
IEMILTEKEQIVPKPEKEVAQKKKISQKKLKKQKL MARK

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**FIGURE 1358**

TGTAGATTAGCTGTGAATATCTTGACTCCTTTAAGGTAATAAGGCTTTTGTTTGTTTTATCTTTCACAGCTAGA  
AAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAGATTTATCAGCGTGCATTTGGTGGACAGAGCCTCAA  
GTTTGAAAAGGGCAGGCAGGCCCATCGGTGCTGCTGTGTGGCTGATCGGACCGGCCACTCAATATTGCACACCTC  
ATATGGGAGGTCTCTGAGATATGATACCAGCTGTTTTGTGGAGTATTTTGCCCTGGATCTCCTGATAGAGAACAG  
GGAGTGCCGTGGTGTTCATTGCACTGTGCATAGAGGACGGGTCCATCCATCACATAAGAGCAAAGAACACTGTTGT  
TGCCACAGGGTAGG

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**FIGURE 1359**

TTTCCGTGCTACCTGCAGAGGGATCCATACGGCGTTGTTCTGGATTCCCGTCATAACTTAAAGGGAACTTTCAC  
AATGTCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCCACTT  
AGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCGTCTATATCATAAA  
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCTGTTGTTGCCATTGAAAACCCCTGCTCATGTCAG  
TGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC  
TGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCAGCCCTTCTGGGAGCCACGGCTTCTTGTGGTTAC  
TGATCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTAAGTTAACCTACCTACCATTGCTCTGTGTAACAC  
AGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTCACTCAGTGGGTTTGATGTG  
GTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGA  
TCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTGAAAAGGCAGTGACCGAGGA  
GGAATTTACAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA  
AGGTGTGCAGGTGCCCTCTGTGCCTATTCAGCAGTTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATAGAAGA  
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGTGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGC  
ATAGGCTCTTAAGCAACATGGAAAAATGGTTAATGGAAAATAAACATCAGTTTCT



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**FIGURE 1360**

GGGAAACTTTTACAATGTCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG  
CAGGAACCCACTTAGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCG  
TCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCTGTTGTTGCCATTGAAAACC  
CTGCTCATGTCAGTGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAG  
CCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCATCTTAAGTTAACCTACCTA  
CCATTGCTCTGTGTAAACACAGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTC  
ACTCAGTGGGTTTGATGTGGTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCTCGTGAACACC  
CATGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTG  
A

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**FIGURE 1361**

ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGAAGACCATCACCCCTCGAGGTT  
GAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA  
CTGATCTTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAGGAGTCTACTCTT  
CATCTTGTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC  
ACAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATACTATAAGGTGGATGAGAATGGCAAATTAGTCGCCTTC  
GTCGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTTTATGGCAAGCCACTTTGACAGACATTATTGTGGCA  
AATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAACTGTATGAGTTAATAAAAGACATGAACTAAA  
AAAAA

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**FIGURE 1362**

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQGKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLLV  
VLRKGRSLTPLPRRISTRERLSWLS

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**FIGURE 1363**

CCCCCCGCTAATGTTTTGGCCGCTTCAAGATGGCGGTGCAGGAGTCGGCGGCTCAGTTGTCCATGACCCTGAAG  
GTCCAGGAGTACCCGACCCTCAAGGTGCCCTACGAGACGCTGAACAAACGCTTTCGCGCCGCTCAGAAGAACATT  
GACCGGGAGACCAGCCACGTCACCATGGTGGTGGCCGAGCTGGAGAAGACGTTGAGCGGCTGCCCCGCCGTGGAC  
TCCGTGGTCAGCCTGCTGGACGGCGTGGTGGAGAAGCTCAGCGTCCTCAAGAGGAAGGCGGTGGAATCCATCCAG  
GCCGAGGACGAGAGCGCCAAGCTGTGCAAGCGCCGGATCGAGCACCTCAAAGAGCATAGCAGCGACCAGCCCGCG  
GCGGCCAGCGTGTGGAAGAGGAAGCGCATGGATCGCATGATGGTGGAGCACCTGCTGCGTTGCGGCTACTACAAC  
ACGGCTGTCAAGCTGGCGGCCAGAGCGGCATCGAGGACCTAGTGAATATTGAGATGTTCTGACGGCCAAAGAG  
GTGGAGGAGTCCCTGGAGAGGCGTGAGACGGCCACCTGCCCTGGCTGGTGGCCATGACAACAAGTCCCGGCTCCGG  
AAGATGAAGAGCTGCCCTGGAGTTCAGCCTCAGAATCCAGGAGTTCATTGAACTCATCCGGCAGAATAAGAGACTG  
GACGCTGTGAGACATGCAAGAAAGCACTTCAGCCAAGCAGAAGGGAGCCAGCTGGACGAGGTGCGCCAGGCCATG  
GGCATGCTGGCCTTCCCGCCCGACACGCACATCTCCCGGTACAAGGACCTTCTGGACCCTGCACGGTGGCGGATG  
CTGATCCAGCAGTTCGGGTACGACAACTACCGACTACACCAGCTGGGAAACAATTCTGTGTTACCCCTCACCCTG  
CAGGCTGGCCTCTCAGCCATCAAGACACCACAGTGCTACAAGGAGGACGGCAGCTCCAAGAGCCCTGACTGCCCT  
GTGTGCAGCCGCTCCCTGAACAAGCTGGCGCAGCCCTGCCCATGGCCCACTGTGCCAACTCCCGCCTGGTCTGC  
AAGATTTCTGGCGACGTGATGAACGAGAACAATCCGCCCATGATGCTGCCCAACGGCTACGTCTACGGCTACAAT  
TCTCTGCTTTCTATCCGTCAAGATGATAAAGTCGTGTGCCCGAGAACCAGGAAGTCTTCCACTTCTCACAAGCC  
GAGAAGGTGTACATCATGTAGGCCCCACGTCGTGAAGCGCACGCCTCGGGGACGGGCTGCAGTGGGCGGGGAGGC  
CACGCCTTCTCTCTGTCCCACGCTCCAGCCTGCCGCGGCGTTCCTGTTTCTGCGACCAAAGATCCGTGAGCAAC  
GATAAATACTCTTAGGAAGAGAGAAAAATAAGGTTTCATAAGTTTGTACTTGAAAACATTTGGATTGGTAGGATTT  
TGTAACACGTCAACCATTTGATGCTTCTGAAAAGTACTTCAACTTGCGAAGGAAACTCTTCTTTAAAGACTGAC  
CTAAACACCGAGGGAACTTAAGAACGTTTAAATATAGGAGTCCGTGATTTCCCTGTGTTTTAGTTTTCTTTCC  
TTCTGTGAACGATGAGACTTGGAGAACGGGCTGGTCCTTCACCACTTCCTGTGGCCCTGGCCTGGCCGGGGAAG  
GTGGCAGCGGCACCGGACTGACCTGCAGTGACCCGCGATGCCGCGCCACGAGGGACACTTATGGCTTCATTCGAG  
AGCTGCTGCCAAAACGCCTGGCGCCGCCACCGTCGGGGGCTGGCTTCGAGGACGCCCGCCTGCCTCGCGGGTCGT  
GTCCGCGGGACTGTGTTGCTACGTGCATAGTTTCGATATCACATCGCGGGGCTGTGTTGCTAGCTGCGTCGTTTC  
GATATCACACCCTCTGTGTGCCGCTTACTTCCTGCTTCGAGAATGTATAACGTGGAAATCCACGGGACCAAAT  
TCTGCAGAGGCCTTGCCGGATGGTTCCATAACTGTAGAGTCTAATTGCTATCCATTACAGAAATTAATCGTTCAG  
TTGAAAGAAGTACTGATGACTTTTCAAAACAAATGAACCACCGTAGCTGACAGAGAACCGTATCGTAGAGGTTTG  
TAGTTAGTGCTTATTTTTGCATGTTGATGTTGACTAGCTAATAAACTGTAAATGTAAACCATGCGAATAAAATGG  
TTTTCTATTTCTC

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**FIGURE 1364**

CCCCAGGTCCGGACAGGCCGAGATGACGCCGAGCCCCCTGTTGCTGCTCCTGCTGCCGCCGCTGCTGCTGGGGGC  
CTTCCCGCCGCGCCGCCGCCGAGGCCCCCAAAGATGGCGGACAAGGTGGTCCCACGGCAGGTGGCCCCGGCT  
GGGCCGCACTGTGCGGCTGCAGTGCCAGTGGAGGGGGACCCGCCGCTGACCATGTGGACCAAGGATGGCCG  
CACCATCCACAGCGGCTGGAGCCGCTTCCGCGTGCTGCCGAGGGGTGAAGGTGAAGCAGGTGGAGCGGGAGGA  
TGCCGCGGTGTACGTGTGCAAGGCCACCAACGGCTTCGGCAGCCTGAGCGTCAACTACACCCTCGTCGTGCTGGA  
TGACATTAGCCCAGGGAAGGAGAGCCTGGGGCCCCGACAGCTCCTCTGGGGGTCAAGAGGACCCCGCCAGCCAGCA  
GTGGGCACGACCGCGCTTCACACAGCCCTCCAAGATGAGGCGCCGGGTGATCGCACGGCCCGTGGGTAGCTCCGT  
GCGGCTCAAGTGCGTGGCCAGCGGGCACCCCTCGGCCGACATCACGTGGATGAAGGACGACCAGGCCTTGACGCG  
CCCAGAGGCCGCTGAGCCCAGGAAGAAGAAGTGGACACTGAGCCTGAAGAACCTGCGGCCGGAGGACAGCGGCAA  
ATACACCTGCCGCGTGTGCAACCGCGCGGGCGCCATCAACGCCACCTACAAGGTGGATGTGATCCAGCGGACCCG  
TTCCAAGCCCGTGCTCACAGGCACGACCCCGTGAACACGACGGTGGACTTCGGGGGGACACGTCTTCCAGTG  
CAAGGTGCGCAGCGACGTGAAGCCGGTGATCCAGTGGTGGAAGCGCGTGAGTACGCGCCGAGGGCCGCCACAAC  
TCCACCATCGATGTGGGCGGCCAGAAGTTTGTGGTGCTGCCACGGGTGACGTGTGGTCGCGGCCGACGGCTCC  
TACCTCAATAAGCTGCTCATCACCCGTGCCGCCAGGACGATGCGGGCATGTACATCTGCCTTGGCGCCAACACC  
ATGGGTACAGCTTCCGACAGCGCCTTCTCACCCTGCTGCCAGACCCAAAACCGCCAGGGCCACCTGTGGCCTCC  
TCGTCTCGGCCACTAGCCTGCCGTGGCCCGTGGTCATCGGCATCCCAGCCGGCGCTGTCTTCATCTGGGCACC  
CTGCTCCTGTGGCTTTGCCAGGCCAGAGAAGCCGTGCACCCCGCGCCTGCCCTCCCTGCTGGGCACCGC  
CCGCCGGGGACGGCCCGGACCGCAGCGGAGACAAGGACCTTCCCTCGTTGGCCGCCCTCAGCGCTGGCCCTGGT  
GTGGGGCTGTGTGAGGAGCATGGGTCTCCGGCAGCCCCCAGCACTTACTGGGCCAGGCCAGTTGCTGGCCCT  
AAGTTGTACCCCAAACCTTACACAGACATCCACACACACACACACACTCTACACACACTACACGTGGAG  
GGCAAGGTCCACCAGCACATCCACTATCAGTGCTAGACGGCACCCTATCTGCAGTGGGCACGGGGGGCCGCCA  
GACAGGCAGACTGGGAGGATGGAGGACGGAGTGCAGACGAAGGCAGGGGACCCATGGCGAGGAGGAATGGCCAG  
CACCCAGGCAGTCTGTGTGTGAGGCATAGCCCTGGACACACACACACAGACACACACTGCCTGGATGCATG  
TATGCACACATGCGCGCACAGTGTCTCCTGAAGGCACAGTACGCACACACGACATGCACAGATATGCCGC  
CTGGGCACACAGATAAGCTGCCCAAATGCACGCACACGACAGACATGCCAGAACATAAAGGATATGCTGCC  
TGAACATACACACGCACACCCATGCGCAGATGTGCTGCCTGGACACACACACACACAGGATATGCTGTCTGGAC  
GCACACAGTGCAGATATGGTATCCGGACACACAGTGCACAGATATGCTGCCTGGACACACAGATAATGCTGCC  
TTGACACACACATGCCAGGATATTGCCTGGACACACACACACACAGTGTGCACAGATATGCTGTCTGGACACGC  
ACACACATGCAGATATGCTGCCTGGACACACACTTCCAGACACAGTGCACAGGCGCAGATATGCTGCCTGGACA  
CACGCAGATATGCTGTCTAGTCACACACACACGACAGATGCTGTCCGGACACACACACGATGCACAGATATGC  
TGTCCGGACACACACACGACGACGATATGCTGCCTGGACACACACAGATAATGCTGCCTCAACACTCACACA  
CGTGCAGATATTGCCTGGACACACATGTGCACAGATATGCTGTCTGGACATGCACACAGTGCAGATATGCTG  
TCCGGATACACACGCACGCACACATGCAGATATGCTGCCTGGGCACACACTTCCGGACACACATGCACACAGG  
TGCAGATATGCTGCCTGGACACACGACAGTGCAGTGTCTTTGGGAGGGTGTGCCGTGAAGCCTGCAGTACGTGT  
GCCGTGAGGCTCATAGTTGATGAGGGACTTTCCCTGCTCCACCGTCACTCCCCAACTCTGCCCGCCTCTGTCCC  
CGCCTCAGTCCCCGCTCCATCCCCGCTCTGTCCCCTGGCCTTGGCGGCTATTTTGGCACCTGCCTTGGGTGC  
CCAGGAGTCCCCTACTGCTGTGGGCTGGGGTTGGGGGCACAGCAGCCCCAAGCCTGAGAGGCTGGAGCCCATGGC  
TAGTGGCTCATCCCCACTGCATTCTCCCCTGACACAGAGAAGGGGCTTGGTATTTATATTTAAGAAATGAAGA  
TAATATTAATAATGATGGAAGGAAGACTGGGTGACAGGACTGTGGTCTCTCCTGGGGCCCGGACCCGCTGGT  
CTTTCAGCCATGCTGATGACCACACCCCGTCCAGGCCAGACACACCCCCCACTGTGCTGGTGGCCCCAG  
ATCTCTGTAATTTTATGTAGAGTTTGTAGCTGAAGCCCCGTATATTTAATTTATTTTGTAAACATGAAAGTGCAT  
CCTTTCCTCC

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**FIGURE 1365**

CCAAAGATGTTGACCAGGAAGATCAAGCTGTGGGACATCAACGCCCACATCACCTGCCGCCTGTGCAGCGGGTAC  
CTCATCGACGCCACCACGGTGACCGAGTGTCTGCACACCTTCTGCAGGAGCTGCCTGGTGAAGTACCTGGAGGAG  
AACAACACCTGCCCCACCTGCAGGATTGTGATCCACCAGAGCCACCCCTGCAGTACATCGGTCATGACAGAACC  
ATGCAAGATATTGTTTACAAATTGGTACCAGGCCTCCAAGAAGCGGAAATGAGAAAGCAGAGGGAGTTCTATCAC  
AAATTGGGCATGGAGGTGCCGGGAGACATCAAGGGGGAGACCTGCTCTGCAAAACAGCACTTAGATTCCCATCGG  
AATGGTGAAACCAAAGCAGACGACAGTTCAAACAAAGAGGCCGCGGAGGAGAAGCCGGAGGAGGACAACGACTAC  
CACCGCAGCGACGAGCAGGTGAGCATCTGCCTGGAGTGTAACAGCAGCAAACTGCGCGGGCTGAAGCGGAAGTGG  
ATCCGCTGCTCAGCCCAGGCGACCGTCTTGCACTCTGAAGAAGTTCATCGCCAAAAAATCAACCTTTCATCCTTT  
AACGAGCTGGACATTTTATGCAACGAGGAGATCCTGGGCAAGGACCACACACTCAAGTTCGTGGTTGTCACTAGG  
TGGAGATTCAAGAAGGCGCCGCTCCTGCTGCACTACAGACCCAAGATGGACTTGCTGTGAATGGTGCCACACAGC  
GCCCACAGACTGGGCCCTCGCACCCCTGGGTGCTCCCGGCCCGCGCTTAAGAACATTGCCTCTGGGTGTCATG  
TGGACCAGACTTCTGAATAGAGAATATTTATAACTTTTGTATGAGAGAG

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**FIGURE 1366**

GGGCTTGTGCGGCATCCTGCTCCGTCTGCAGGTTGTGCTTCCGGTGCGGAGGTCATGGACAAAATGGTGCCACCG  
GTGCAGGTCTCTCCGCTCATCAAGCTCGGCCGCTACTCCGCCCTGTTCCCTCGGTGTGGCCTACGGAGCCACGCGC  
TACAATTACCTAAAACCTCGGGCAGAAGAGGAGAGGAGGATAGCAGCAGAAGAGAAGAAGAAGCAGGATGAACTG  
AAACGGATTGCCAGAGAATTGGCAGAAGATGACAGCATATTAAAGTGAGTGACCCTGCGACCCACTCTTTGGACC  
AGCAGCGGATGAATAAAGCTTCCTGTGTTGTGTGAT

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**FIGURE 1367**

MVPPVQVSPLIKLGRYSALFLGVAYGATRYNYLKPRAEERRIAAEKKKQDELKRIARELAEDDSILK



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**FIGURE 1368**

GGAGTGGCAGCCGGAGTCTGAACTGTCCTGGGGGACCAAGCAGGAGCTTAAGATGGGCAAGACCTGGGGCCCTGG  
GCAGACGCATCAAAGCAGGCAGAAGCAGGCATGGCCAGCAGGAAGACCAAGAAGAAGGAAGGGGGTGCCCTCCGG  
GCCCAGAGAGCCTCATCCAATGTCTTCTCCAACCTTTGAGCAGACTCAGATCCAGGAGTTCAAGGAGGCATTACA  
CTCATGGATCAGAACCAGATGGCTTCATTGACAAGGAGGACCTGAAGGACACCTATGCCTCCCTGGGCAAGACC  
AACGTCAAGGACGACGAGCTGGACGCCATGCTCAAAGAGGCCTCGGGGCCCATCAACTTCACCATGTTTCTGAAC  
CTGTTTGGGGAGAAGCTGAGCGGTACCGACGCCGAGGAGACCATTCTTAACGCCTTCAAGATGCTGGACCCGGAC  
GGGAAAGGGAAAATCAACAAGGAGTACATCAAGCGTCTGCTGATGTCCCAGGCTGACAAGATGACGGCGGAAGAG  
GTGGACCAGATGTTCCAGTTCGCCTCCATCGATGTGGCGGGCAACCTGGACTACAAGGCGCTCAGCTACGTGATC  
ACCCACGGGGAGGAGAAGGAGGAGTGAGACCCAGCCGGGTCAATAAACCTGGACGCTTGGA

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**FIGURE 1369**

MASRKTKKKKEGGALRAQRASSNVFSNFEQTQIQEFKEAFTLMDQNRDGFIDKEDLKDTYASLGKTNVKDDELDAM  
LKEASGPINFMTFLNLFGEKLSGTDAEETILNAFKMLDPDGKGKINKEYIKRLLMSQADKMTAEVDQMFQFASI  
DVAGNLDYKALSYVITHGEEKEE

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**FIGURE 1370**

CAGTAGTCCTTGGGGCGGAAGTGGCCCCCGTGGCCCCGGCCGGCTCGGCCCCACCTCCGCCCCGAGGCGGTCCC  
GGCCCCACGCGGAAGGTCTTAAGCCCGGGCGGCCGGCGGGACCGGCGGAGACCCGTGGAGGCCGCCGACGATGG  
CGGGGCCGACGGAGGCCGAGACGGGGTTGGCCGAGCCCCGGGCCCTGTGCGCGCAGCGGGGCCACCGACCTACG  
CGCGCCGCTGGGTGTTCTGCTCGCGATCAGCCTGCTCAACTGCTCCAACGCCACGATCAACTGGCTGTCACTGG  
TCTACCTCGTGGTATCCACCCATTGCGGTGGCGGCCATCTGGATCCTGGACTCCGTGGGGCTCCGTGCGGCGC  
TCGGTGTCTATACCATCCCTGCTGGCGTCTGTGCTGCTGTCCACCATCTGCCTGTGGGAGAGTGTGCCCCCA  
CCCCGCCCTCTGCCGGGGCTGCCAGCTCCACCTCAGAGAAGTTCTGGATGGGCTCAAGCCGAGCTCATGTGGA  
ACAAGGCCTATGTCATCCTGGCTGTGTGCTTGGGGGGAATGATCGGGATCTCTGCCAGCTTCTCAGCCCTCCTGG  
AGCAGATCCTCTGTGCAAGCGGCCACTCCAGTGGGTTTTCCGGCCTCTGTGGCGCTCTCTTCATCAGTTTGGGA  
TCCTGGGGGCACTGGCTCTCGGCCCTATGTGGACCGGACCAAGCACTTCACTGAGGCCACCAAGATTGGCCTGT  
GCCTGTTCTCTCTGGCCTGCGTGCCCTTTGCCCTGGTGTCCAGCTGCAGGGACAGACCCTTGCCCTGGCTGCCA  
CCTGCTCGCTGCTCGGGCTGTTTGGCTTCTCGGIGGGCCCCGTGGCCATGGAGTTGGCGGTGAGTGTCTCTCC  
CCGTGGGGGAGGGGGCTGCCACAGGCATGATCTTTGTGCTGGGGCAGGCCGAGGGAATACTCATCATGCTGGCAA  
TGACGGCACTGACTGTGCGACGCTCGGAGCTGTCTTGTCCACCTGCCAGCAGGGGGAGGATCCACTTGAAGTGA  
CAGTGTCTCTGCTGCTGATGGCCGGCCTGTGCACCTTCTTCAGCTGCATCCTGGCGGTCTTCTTCACACCCCAT  
ACCGGCGCCTGCAGGCCGAGTCTGGGGAGCCCCCTCCACCCGTAACGCCGTGGGCGGCGCAGACTCAGGGCCGG  
GTGTGGACCGAGGGGGAGCAGGAAGGGCTGGGGTCCGTGGGGCCAGCACGGCGACTCCGGAGTGCACGGCGAGGG  
GGGCCTCGCTAGAGGACCCAGAGGGCCCGGGAGCCCCACCCAGCCTGCCACCGAGCGACTCCCCGTGCGCAAG  
GCCCAGCAGCCACCGACGCGCCCTCCCGCCCCGGCAGACTCGCAGGCAGGGTCCAAGCGTCCAGGTTTATTGACC  
CGGCTGGGTCTCACTCCTCCTTCTCCTCCCCGTGGGTGATCAGCTAGCTGAGCGCCTTGTAGTCCAGGTTGCCCCG  
CCACATCGATGGAGGCGAACTGGAACATCTGGTCCACCTGCGGGCGGGGCGAAAGGGCTCCTTGCGGGCTCCGG  
GAGCGAATTACAAGCGCGCACCTGCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1371**

MAGPTEAETGLAEPRALCAQRGHRITYARRWVFLLAISLLNCSNATINWLSLVYLVVSTPFGVAAIWILDSVGLRA  
ALGVYTIPAGVVCLLSTICLWESVPPTPPSAGAASSTSEKFLDGLKPQLMWNKAYVILAVCLGGMIGISASFSA  
LEQILCASGHSSGFSGLCGALFITFGILGALALGPYVDRTHFTEATKIGLCFLSLACVPFALVSQLOGQTLALA  
ATCSLLGLFGFSVGPVAMELAVECSFPVGEAATGMIFVLGQAEGILIMLMTALTVRRELSLSTCQGEDPLD  
WTVSLLLMAGLCTFFSCILAVFFHTPYRRLQAESGEPPSTRNAVGGADSGPGVDRGGAGRAGVLPSTATPECTA  
RGASLEDPRGPGSPHPACHRATPRAQGPAATDAPSRPGRLAGRVQASRFIDPAGSHSSFSSPWVIT

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**FIGURE 1372**

GGCACGAGGGGTTCCGTTTCCGGAGTGGAGGGCACGCCAGGGTGTCTGAAGCTGAGACCCCGGGCTCGCAGTCGC  
CCCATGAATTTTCGAGTTCCGCAACTGACGCTACTGGGCGGGGCTTCATGGCCAGGGCCTCGCTCAGGCCTAAGTT  
TCCCCACCTGTGCTCAATGCACAGGTGCGGTGCCGCTCCAGGGCCGGCCGAGAAGAGAGGGCCGACCCGCACGG  
GGACTGCATCTCCAGAGCGCCCCGCGAGCGGCCGAGCGGGGACTCCATGCCCTAGAGTGCCCCGCGGGCGGC  
CGGGCGGGCGGGACTCCATGTCTAGAGTGCCCCGCGGGCGGCCGGGCGGGGACTCCATGTCTAGAGTGCCCC  
GCGGGCGGCCGGGCGGGCGGGACTCCATGTCTAGAGTGCCCCGCGGGCGGGCGGGCGGGCGGCCGCAACCGAC  
AGGTCCGGGACTGGGCGCTGCGGCCTCGTCCGCGCGCCGGGGCGGGGCGGGGCTAGCTCGACAGCTTCCCGGCGGCTG  
CGCGATGGACAGCCCCGAGGTGACCTTCACTCTCGCCTATCTGGTGTTCGCCGTGTGCTTCGTGTTACGCCCAA  
CGAGTTCCACGCGGGCGGGGCTCACGGTGACAGAACCTGTGTGGGGCTGGCTGGGCAGCGAGGACGCCGCTTCGT  
GCCCTTCCACTTGCGCCGACGGCCGCCACGCTGTTGTGCCACTCGCTGCTGCCGCTCGGCTACTACGTGGGCAT  
GTGCCTTGGCGGCTTCAGAAAAGCGGCTCCACGCCCTCAGCCAGGCCCCCTGAGGCCTGGCGGCTCTTCTGTGCTGCT  
GGCCGTGACCTCCCCCTCCATCGCCTGCATCCTGATCTACTACTGGTCCCGTGACCGGTGGGCGCTGCCACCCACT  
GGCGCGCACCTGGCCCTCTACGCCCTCCACAGTCTGGCTGGCAGGCTGTTGCCTCCTCTGTCAACACTGAGTT  
CCGGCGGATTGACAAGTTTGCCACCGGTGCACCAGGTGCCCGTGTGATTGTGACAGACAGTGGGTGATGAAGGT  
AACCACCTACCGAGTGACGTGGCCAGCAGCAGGACGTGCACCTGACTGTGACGGAGTCTCGGCAGCATGAGCT  
CTCGCCAGACTCGAACTTGCCCCGTGCAGCTCCTCACCATCCGTGTGGCCAGCACCAACCTGCTGTGCAGGCTT  
TGACATCTGGAGCTGGAGGCTGCATAGGCTGCATGCAGACAGTGCAGCGTGAAGCTGGTGAAGACCTGCCAG  
GAGGCAGCCACAGGCGAGTGCCAGCAGTGTTACTGCCGCCCATGTGGTGCCTCACCTGCATGGGCAAGTGGTTC  
GCCAGCCGCCAGGACCCCCCTGCGCCCTGACACCTGGCTGGCCAGCCGCGTGCCTGCCCAECTGCCGCGCACGC  
TTCTGCATCCTGGATGTGTGCACCGTGCGCTGAGTGGGCTGGGGCCTTGAGGTGACTCTGTGTCTCCCCGCAAAG  
CCACAGGGCAGGGAAGGGGTTGGCTGGGCCTCCTGGCTGGCAAAGGGCTCTACTTAAAGCACATGATGTAGAGCA  
ACTCGCCTCTGCCCTGGGTCTGCAGAAGGCTGAGGACTTTTGTTAAAAGCAATCCTCATGAAAACACCCACCC  
TGCTTGGCAGCCAGGGTACAAGTCTGGGCACCTCCTCTTGGCTCCCTCCTGCCCTTCTCTGCTGGTGGGGC  
AGATCCTGCACACACAGACACAGCGTCTGCCCCGAGCCATTCCCTGGAGACCTGGGTCTACCCAGGTGGTCTG  
TCATCTGGGCCATTTGCCTTACTTCTCTGGAGCATACCCACCTCAGTTACGTGCCAGACCTGGACCGCATCTC  
CTGCCCTGTCTGGAGCTGGCCCCCTGGCTGCCTGGAGGACCTGGGTAGGTCTTGAGGGTGGGATGGAGAAGAGG  
GCACTGCTGTGGTGTGGGAGCAGTCTTGGGGCTTCTGGTGGCTGTGACCAGTTGAGGGGCTGTTCTGGGTGGG  
GTGGCAATGGGAGGACAGGTGAGAGCGCCCTCATTGTGGGGCTGCCCTCCGGGTTTCTCATCCTGTCTTGGT  
GCCTTTTTCTGCCCAACAAGTCCAGGGAAGGCCGAGGTCTCAGACTCCTGGGTAGGGGTGGGGGTTTGAGTTGAG  
GACCAAAGTGCCATAGCGACATCCAGAACACAAGCCACAGGGGTCCAGCCAGGCTACCCACTCCCTAGGGT  
CTCCCAGGCTCAGAAGGGGATGCACGCCCCCTGTGGTCAAGCCTCTGGTGGGCGTCTTGCCAGTTCCTGATGGT  
TCAAGGGGAGGGGGATGTTGGCCAGGCCCCAGGGCACAGCCCTGACACAGGTGTGGCTACTGGAGGGGCTTCA  
TACCTGCGGCCCAAAGCCCTGGGCTTGGCTGTTTGAGGCAGAGGTGATGGACTCCGGGGGCTGACACTTGGG  
ATTTGGGAGGCTTCTAGAGCGCTCAGCAGGTGAAGGCAGAGGGGCCATGGCCGGGAGCCAGGCTAGCTTTGA  
ACTGAGTTTCAAGGGCTGCCAAAGAGGGGCGAGTGGGTTGGGTTGTTTTTACTACAAAATAAGTTACTTAGTTTT  
ATAAAGACAAACCGATTGTAGCCAAATGACACCATATTTAATAAAATTTAGTCTGAAGTGAATAAAAAAAAAAAAA  
AAAAAA

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**FIGURE 1373**

MDSPEVTFTLAYLVFAVCFVFTPNEFHAAGLTVQNLLSGWLGSEDAFAVFPFHLRRTAATLLCHSLLPLGYYVGMCLAA  
SEKRLHALSQAPEAWRLFLLLAVTLPSIACILIIYYWSRDRWACHPLARTLALYALPQSGWQAVASSVNTEFR  
RIDKFATGAPGARVIVTDTWVMKVTTYRVHVAQQQDVHLTVTESRQHELSPDSNLPVQLLTIRVASTNPAVQAFD  
IWSWRPA

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**FIGURE 1374**

GGCGGCGGTAGCAGCCAGGCTTGGCCCCGGCGTGGAGCAGACGCGGACCCCTCCTTCCTGGCGGCGGCGGCGCG  
GGCTCAGAGCCCGGCAACGGGCGGGCGGGCAGAAATGAGTCTGCAGGTCTTAAACGACAAAAATGTCAGCAATGAA  
AAAAATACAGAAAATTGGCACTTCTGTCTTCGCCACCAGAAGTTACCGGAAGATCGTCTGTCTTCGTGTGTCA  
CAGAAAGAAAATGTGCCACCCAAGAACCTGGCCAAAGCTATGAAGGTGACTTTTCAGACACCTCTGCGGGATCCA  
CAGACGCACAGGATTCTAAGTCTTAGCATGGCCAGCAAACCTTGAGGCTCCTTCACTCAGGATGACACCCTTGGA  
CTGGAAAACCTCACACCCGGTCTGGACACAGAAAGAGAACCAACAGCTCATCAAGGAAGTGGATGCCAAAACCTACT  
CATGGAATTCTACAGAAACCAAGTGGAGGCTGACACCGACCTCCTGGGGGATGCAAGCCCAGCCTTGGGAGTGGC  
AGCTCCAGCGAGTCTGGCCAGGTGCCCTGGCTGACCTGGACTGCTCAAGCTCTTCCCAGAGCCCAGGAAGTTCT  
GAGAACCAATGGTGTCTCCAGGAAAAGTGTCTGGCAGCCCTGAGCAAGCCGTGGAGGAAAACCTTAGTTCTTAT  
TCCTTAGACAGAAGAGTACACCCGCCTCTGAGACCTTAGAAGACCTTGCAGGACAGAGTCCCAGCACAAAGCG  
GAGACTCCGCACGGAGCCGAGGAAGAATGCAAAGCGGAGACTCCGCACGGAGCCGAGGAGGAATGCCGGCACGGT  
GGGGTCTGTGCTCCCGCAGCAGTGGCCACTTCGCCTCCTGGTGCAATCCCTAAGGAAGCCTGCCGAGGAGCACCC  
CTGCAGGGTCTGCCTGGCGAAGCCCTGGGCTGCCCTGCGGGTGTGGGCACCCCCGTGCCAGCAGATGGCACTCAG  
ACCCTTACCTGTGCACACACCTCTGCTCCTGAGAGCACAGCCCCAACCAACCACCTGGTGGCTGGCAGGGCCATG  
ACCCTGAGTCTCAGGAAGAAGTGGCTGCAGGCCAAATGGCCAGCTCCTCGAGGAGCGGACCTGTAAAACCTAGAA  
TTTGATGTATCTGATGGCGCCACCAGCAAAAGGGCACCCCCACCAAGGAGACTGGGAGAGAGGTCCGGCCTCAAG  
CCTCCCTTGAGGAAAGCAGCAGTGGAGGAGCAAAAGGCCCGCAGGAGGTGGAGGAGGACGACGGTAGGAGCGGA  
GCAGGAGAGGACCCCCCATGCCAGCTTCTCGGGGCTCTTACCACCTCGACTGGGACAAAATGGATGACCCAAAC  
TTCATCCCGTTTCGGAGGTGACACCAAGTCTGGTTGCAGTGGGCCCAGCCCCAGAAAGCCCTGAGACCAGGCTG  
GGCCAGCCAGCGGTGAACAGTTGCATGCTGGGCTGCCACGGAGGAGCCAGGTCCCTGTCTGAGCCAGCAGCTG  
CATTACGCCTCAGCGGAGGACACGCCTGTGGTGCAGTTGGCAGCCGAGACCCCAACAGCAGAGAGCAAGGAGAGA  
GCCTTGAACCTCTGCCAGCACCTCGCTTCCCAAGCTGTCCAGGAGTGGAGTTCCTTGGGAGCACTGGACATTCTGTGCCA  
CAGCCTGCCTTGAGCTGAAAGAGGAGAGCTTCAGAGACCCCGTGGAGTTCCTAGGACGGGCGGAGGTGGAT  
TACCTGGAGCAGTTTGGAACTTCTCTGTTTAAAGGAGTGGCCCTTGAGGAAGCAGTCTTATACCTCAAGTTTCGAC  
CCCCCTCTGAGGGACAGTCTTGGTAGACAGTGGCCGTGGCCACCGAGACCAGCAGCATGCACGGTGCAAATGAG  
ACTCCCTCAGGACGTCCGCGGGAAGCCAAGCTTGTGGAGTTCGATTCTTGGGAGCACTGGACATTCTGTGCCA  
GGCCCCACCCAGGTGTTCCCGCGCCTGGGGGCCACCCCTGTCCACCGGACCTATAGTGGACCTGCTCCAGTAC  
AGCCAGAAGGACCTGGATGCAGTGGTAAAGGCGACACAGGAGGAGAACCAGGAGCTGAGGAGCAGGTGTGAGGAG  
CTCCACGGGAAGAACCTGGAACCTGGGAAGATCATGGACAGGTTCGAAGAGTTGTGTACCAGGCCATGGAGGAA  
GTTTCAAGCAGAAGGAACCTTCCAAAGCTGAAATCCAGAAAGTTCTAAAAGAAAAAGACCAACTTACCACAGAT  
CTGAACCTCATGGAGAAGTCTTCTCCGACCTCTTCAAGCGTTTTGAGAAAACAGAAAGAGGTGATCGAGGGCTAC  
CGCAAGAACGAAGAGTCACTGAAGAAGTGGTGGAGGATTACCTGGCAAGGATCACCCAGGAGGGCCAGAGGTAC  
CAAGCCCTGAAGGCCACGCGGAGGAGAAGCTGCAGCTGGCAAACGAGGAGATCGCCAGGTCCGGAGCAAGGCC  
CAGGCGGAAGCGTTGGCCCTCCAGGCCAGCCTGAGGAAGGAGCAGATGCGCATCCAGTCGCTGGAGAAGACAGTG  
GAGCAGAAGACTAAAGAGAACGAGGAGCTGACCAGGATCTGCGACGACCTCATCTCCAAGATGGAGAAGATCTGA  
CCTCCACGGAGCCGCTGTCCCGCCCCCTGCTCCCGTCTGTCTGTCTGCTGATTCTCTTAGGTGTCTGTTTC  
TTTTTCTGTCTGTCTTCACTTTTTTTAAACTAGATTGCTTTGAAAACATGACTCAATAAAAGTTTCTTTC  
AATTTAAAAAAA

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**FIGURE 1375**

MSLQVLNDKNVSNEKNTENCDFLSPPEVTGRSSVLRVSQKENVPPKNLAKAMKVTFQTPLRDPQTHRILSPSMA  
SKLEAPFTQDDTLGLENSHPVWTQKENQQLIKEVDAKTHGILQKPVEADTDLLGDASPAFGSGSSSES GPGALA  
DLDCSSSSQSPGSSSENQMVSPGKVS GSPEQAVEENLSSYSIDRRVTPASETLEDPCRTESQHKAETPHGAEEEECK  
AETPHGAEEECRHGGVCAPAAVATSPPGAIPKEACGGAPLQGLPGEALGCPAGVGTPVPADGTQTLTCAHTSAPE  
STAPT NHLVAGRAMT LSPQEEVAAGQMASSSRSGPVKLEFDVSDGATSKRAPPPRRLGERSGLKPPLRKA AVRQQ  
KAPQEVEEDDGRSGAGEDPPMPASRGSYHLDWDKMDDPNFI PFGGDTKSGCSEAQPPESPETRLGQPA AEQLHAG  
PATEEPGPCLSQQLHSASAEDTPVVQLAAETPTAESKERALNSASTSLPTSCPGSEPVPTHQQGQPALELKEESF  
RDPAEVLGTGA EVDYLEQFGTSSFKESALRKQSLYLKFDPLLRDSPGRPVVPVATETSSMHGANETPSGRPREAKL  
VEFD FLGALDIPVPGPPGVPAPGGPPLSTGPIVDLLQYSQKDLD AVVKATQEENRELSRCEELHGKNLELGI  
MDRFEEVVYQAMEEVQKQKELSKAEIQKVLKEKDQLTTDLNSMEKSFSDLFKRFEKQKEVIEGYRKNEESLKKCV  
EDYLARITQEGQRYQALKAHAEEKLQLANEEIAQVRSKAQAEALALQASLRKEQMRIQSLEKTVEQTKENEELT  
RICDDLISKMEKI



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**FIGURE 1376A**

TGGTCTTGAACCTCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC  
GTGCCTGTCTAGAACCACTGGTAACCTCTTAAGTGAACAAGATTTGCCATGTTGCCCAGGCTGGTCTCGAACT  
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC  
CTTGCCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTTCTGGACACTTGTGGTGGCAGAGCTGTCTGCTT  
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTCAGGTGTCCTCCACCTCAGTACT  
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC  
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATGAATTTAGCATCAAGCAGAGTCCCCTTT  
CTGTTTCAGAGTGTTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAACGGGAAGACTC  
CGAGCTGCGAGGTGAACCGCGAGTGTTCTGTGTTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGG  
TCATGCAGAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG  
TGTTTTAATGGAGAACCCGGCGCACACGATGCCAACTGCGTTTGTAGTCCCAGGAAATGAAAGGGATTGGGACAC  
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA  
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAAC  
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTCGAAG  
CAGCTCTTGTGTCTAAGATCTCAAGTCCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG  
GAAGAGACAAAGACCACCTGTTGAAATACAACTGTTGGTGATTTGGTGTGGTCCAAAGTGTGCGGTTACCCCTTGGT  
GGCCTTGCAATGGTTTCTGCAGATCCACTCCTTCACAGCTATACCAAATTAAGGTCAGAAAAAGAGTGCACGCC  
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG  
GAGAAGGACAGTTTGAATAATTATGCCAGGAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT  
TGAAACCAATTTAGGGAAATGAGGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT  
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACCAGCTTCATCTCAACCCTCAAGTAGCCA  
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA  
ACCCCAAGTCTGTGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA  
CCCTGGAGAGTCACCCGACATAGGGAAGAGTACTCCTCAAAAGACGGCAGAGGCTGACCCCAAGAGGAGTAG  
GGTCTCCTCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTTT  
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC  
TGCTCAGGTCACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCACGCTACAACACCAAGTTTGCCCTGTTGGCCC  
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACACAAAGAGGATACAGGACCCTA  
CAGAAGATGTGAAGCTGAGGACACACCCAGGAAAGACTCAGGACGGACAAAGCAGTCTTCGGAAGAGAGACA  
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG  
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC  
TTGGGTTTAGCAAAAGTTTCTCTCTGATCCTTAACTGAGAATGAGGTCTCGGACAGCCCGGGAGACGAGC  
CCTCGGAGTCCCATACGAAAGTGACAGCAAAACACAACTGAAGTATCTGTCTCATCAAAAAGTCTGAGCGAG  
GAGTGACTGCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACCT  
GCTGCGGAGCTTCCACCTCGCCTGCTTGGGCTTCCCGGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTGTG  
CCTCAGGGATTCACTCATGTTTCTGTGTGTAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACCTCAGTGTG  
GAAAATTTTACCATGAGGCTTGTGTGAAAAAATACCTCTGACTGTATTTGAGAGCCGAGGTTTCCGCTGCCCCC  
TCCACAGCTGTGTGAGCTGCCATGCTTCCAACCTTCAAAACCAAGGCCGTCAAAAGGTAAAATGATGCGGTGTG  
TCCGCTGCCCCGTGCTATCACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAGCA  
TCATCTGCACTGCCCCTTCACTGCTCGGAAGGGGAAGCGACACCACGCCACGTCACGTGAGCTGGTGTCTCG  
TGTGCTCCAAAGGGGGGAGCCTTCTGTGCTGTGAGTCTGCCCAGCGCCTTCCACCCTGACTGCTGAACATCG  
AGATGCCCTGACGGCAGCTGGTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTGGG  
TGAAACTTGGGAACATACAGATGGTGGCCGGCAGAAGTTGCCATCCCAAAAATGTTCCCCCAATATTAGAAAA  
TGAAGCAGAGATTGGAGAATTCCTGTGTTTTTCTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCGAG  
TGTTCCCGTACATGGAGGGGGACCGGGGCAGCCGTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAACG  
CACTGCAAGAAGCTGAAGCTCGTTTTCGTGAAATTAAGCTTCAAGGGGAAGCCCGAGAAACACAGGAGAGCGAGC  
GCAAGCCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATATTT  
CAGAAATCCCTAAGTGCAACTGCAAGCCACAGATGAGAATCCTTGTGGCTTTGATTGCGAGTGTCTGAACAGGA

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**FIGURE 1376B**

TGCTGATGTTTGAGTGCCACCCGCAGGTGTGTCCCGGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCC  
AGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGG  
GAGAATTTGTTAAGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACACG  
AGAACGACATACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAACT  
ACTCTCGATTTATGAATCACAGCTGCCAGCCCAACTGTGAGACCCCTCAAGTGGACAGTGAATGGGGACACTCGTG  
TGGGCCTGTTTGCCGTCTGTGACATTCTGTCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCA  
ATGAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGACGA  
CCCTTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAGGGGAAGGGAAGA  
GGCAGTCAGAGGACGAGTGCTTCCGCTGCCGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCACCA  
AGGCCTACCACCTGTCTGCCCTGGGCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTTGTG  
ACGTGTGTGGCAAACCTTCGACTTCATTTTGCCACCTCTGCCCAATTCTGTTCTGTAAGGAGCACCAGGACGGGA  
CAGCCTTCAGTGCACCCCGGACGGCGGCTCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAGCA  
CCAAGACTGAGAAGCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGAGGGGCTGGCGGAGAG  
TCACAGAGGGCAAATAGCGCCAGGCGGCGCTTGCCCGGATCCAGGGGCGGTGCAGGGCGGCGGCGCTGCTGC  
GGGAGAGGGCGGAGCATGAACCTGGCCCGGAGGACCCAGCTCGAGCGGCCAGGACACAGACGTACAGGCCTCTCGG  
GAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCA  
GCTCAGCGTTCTTGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGGTT  
CCCTCCCACTCTATTTTTTAGGTTAAAGTTAATTGGCATATGGAATGTTTAACTCTCTCTGAAATGTGTAGCG  
TAGGCTTTTCCAAAGGGTCGCTAGAACTCGTCTTCGCGTTGCCCGCTTCTGGCTCTCAGCGCGCTCGCCACTC  
GGGAGAGGCTGGGTGAGGCGCGTGTGAGGACTGACCTGGATTCTTCGAACTGCCATTGTGATCACTACTCTGC  
TCTTTGGAAATGGCTGTATCATTTTTTTGTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTCCATCTAGT  
GAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTTCTCCCGTAGTTTTTCTCTCATGGAT  
TTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTCAGAGCCTGCGCGGTT  
GGGCCTACTTCTCACCTGGGCCTATCTTCTGAACCTCGTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATA  
TTTTTTTCATTTGGCTTTTCTTTTACCAGTTCTGATTTTTTATTCTCAATATATTTTTTGCTAAACCTATTTACAA  
ATCACCCAGGACTGAAGTGTGTGTTTACTGATCGGCCCTGAGCTCCATGGCGAAAGGAGTGAAGTTGCAGGGCG  
TGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGACAACCTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGGAC  
CCCAGCACGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTG  
TGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGG  
TCCTGGGGGTGGAGGCTGCTGGCAGGTGTGCGTGCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGGTA  
TGACACCCACTCTCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAACCTATCTATCT  
GAGTACTACATATGTTTTAAGACTTGGTCTTTTTTTGAGGATCCTTGACCTGGGAAGTCTGGAGCACCTGA  
GAAGGGGGCACCATGTGTGCCCTTGCCACGTGCTGAGGGGCTGCTTGTCTGGGAGGAGGGAGAGAATTC  
AGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTTAC  
AGAATCCCCCTTGAAGTCTGCTGCTGAGGCTCCTGTAAATTTCTGTGGCATCTTTTATGCCTTGGTAAAACT  
GCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTGTGACCTGTAAGCGTGGGGTTTCAGGGGTGTGTGGC  
CCTGCAGGGTCCCACGCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGG  
GTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGCCG  
TGGCCTCTGAGGGGCACTCGCCGGTTAAGACAGGGTGGGAGTAGTCTTTCCAGTTCAGACTCTAAGTTCTCCCA  
AAGTGTCTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAAGTTGGAAGGTGTCT  
AGGGACAGGCCGGGAGTGTCCCCACACACACCTTAGAGTCAAGGCCCCAGGGCCCCGCTGTCACTTGCCCAA  
AGATCCCTTCCGGCAGGTAAGGAGTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCATTTGG  
GGAGCAGATATTAACCTATTTTTGTGTTGGACAGTAGTGAATCTTGTGATTTTTTAACTCGCTTTGATAACTTC  
CAAATTTTATGATTTTTCTGAAGGAAATAATGCAACATTTTAAATATGTTTCTCCCCCTTTCCAAAACGTGTA  
AACTAATGAGCAAGTAACACTAAGTTGAATGTCTTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTTGG  
GGTAGCGGCCCTGAGCTTGACGGTTTCTCGCCACTGGGGCTGACCACGCCCCAGCTGTGACCGTGGGTGTGGC  
TGGCTCTCGGCCCTGCCAGCTTTGTCTGAGGACGTGGTGAAGTCTTGAACATCAGCTTCAATCTCCATCAT  
AATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCTTGGCATCCGAAACCAGCATCTGCACCTAA

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**FIGURE 1376C**

ACCCATACCCACCCGTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAAATGTGGTCACCTGTGGGGG  
AAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCC  
ATGGCTGGCTGGGTCCCCTTCGCAGTGTTTGTCTGTCTTGACATCTAAACCCGGCGTGTGCAGTGCCCATCTC  
CAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAAAT  
ATCTTGATCCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAAATGCTGTGTCCACGGGGTGTAC  
AGCCTCACCATACCCGTGTTGAGGTGTGAAATGCCCCGTGAGAAATTAAATACAACTTAAATGTGCCTATTGGTG  
TCTAAACTTCATACAATGTAAGGTCAGATTCTTTTAGGAATACTGGGTGCTGTCACCAGGTTTGATAGTTAGAC  
TTAAAAACTTGAAATTCACTTTTTGGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAA  
AATAGCATTTAAATGGAAAGCTGTGTTTGAAATTTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAGGC  
TTTTTCTTAA

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**FIGURE 1377**

MEFSIKQSPLSVQSVVKCIKMQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFP  
ADKLKDLTSRVFNCEPGAHDALRFESQEMKGIGTPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD  
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLKYNVGDL  
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ  
APTKAEKIKLLKPISGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE  
SSGVSEEAENPKSVREECIPMKRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKTTVSMR  
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLSQWSLLSEKQARARYNTKFALVAPVQAEEDSGNVNGKK  
RNHTKRIQDPTEDAEAEETPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSACKPLKKR  
NRSTAASSALGFSSSSPSASLTENEVSDSPGDEPSESPYESADETQTEVSVSSKKSERGVTAKEYVCQLCEK  
PGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCSECASGIHSCFVCKESKTDVKRCVVTQCGKFYHEACVKKYPLT  
VFESRGFRCLHSCVCHASNPNRPSKGMRCVRCVPAYHSGDACLAAGCSVIASNSIICTAHFTARKGKRH  
HAHVNVSWCFVCSKGGSLCCESCFAAFHPDCLNIEMPDGSWFCNDCRAGKKLHFQDIWVKLGNRWPAEVCH  
PKNVPPNIQKMKHEIGFPPVFFFGSKDYWTHQARVFPYMEGDRGSRYQGVRGIGRVFKNALQEAEARFREIKLQ  
REARETQESERKPPPYKHIVNKPYGKVQIYTADISEIPKCNCKPTDENPCGFDSECLNRMLMFECHPQVCPAGE  
FCQNQCFTKRQYPETKIIKTDGKGWGLVAKRDIRKGEFVNEYVGELIDEEECMARIKHAHENDITHFYMLTIDKD  
RIIDAGPKGNYSRFMNHSCQPNCELTWKTVNGDTRVGLFAVCDIPAGTELTFNYNLDCLGNEKTVCRGASNCSSG  
FLGDRPKTSTTLSSSEKGGKTKKTRRRRAKGEGRQSEDECFRCGDGGQLVLCDRKFKTKAYHLSCLGLGKRPF  
GKWECPWHHCDVCGKPSTSFCHLCPNSFCKEHQDGTAFCTPDGRSYCCEHDLGAASVRSTKTEKPPPEPGKPKG  
KRRRRRGWRRVTEGK

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## FIGURE 1378A

TGGTCTTGAACCTCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC  
GTGCCTGTCTAGAACCACTGGTAACCTCTTAACCTGAGACAAGATTTGCCCATGTTGCCAGGCTGGTCTCGAACT  
TCTGAGCTCAAGCGATCTACCTGCCTCGTCCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC  
CTTGCCCTCATGTTGAATGATAATTTACCTGGGCATAAAATTCTGGACACTTGTGGTGGCAGAGCTGTCTGCTT  
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTGAGGTGTCTCCACCTCAGTACT  
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC  
CGCAACCCATCAGAGTGTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCTTT  
CTGTTTCAAGTGTGTAAAGTGCAATAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAACGGGAAGACTC  
CGAGCTGCGAGGTGAACCGCGAGTGTCTGTGTTCTTCAGCAAAGCCAGCTCTCCAGTAGCCTGCAGGAGGGGG  
TCATGCAGAAGTTTAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG  
TGTTTAATGGAGAACCCGGCGCACACGATGCCAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC  
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA  
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGTCTGTATGTGTCTCAGTCAGAAGAAAATGGACAAAAAC  
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTCTGAAG  
CAGCTCTTGTGTCTAAGATCTCAAGTCCCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG  
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTTGGTGTGGTCCAAAGTGTGCGGTTACCTTGGT  
GGCCTTGCGATGGTTTCTGCGATCCACTCCTTCACAGCTATACCAAATTAAGGTGAGAAAAGAGTGCACGCC  
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG  
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT  
TGAAACCAATTTTCAAGGAAATTGAGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT  
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACCAGCTTCATCTCAACCTCAAGTAGCCA  
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA  
ACCCCAAGTCTGTGAGAGAAGAGTGCATTCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA  
CCCTGGAGAGTCACCCCGACATAGGGAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCAGAAAGAGAGTAG  
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGAGATGCAGCATCCAGTTTT  
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC  
TGCTCAGGTACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCAGCTACAACACCAAGTTTGCCCTGGTGGCCC  
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACCACAAAAGAGGATACAGGACCCTA  
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAGAGAGACA  
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG  
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCACGGCAGCATCTTCAGCTC  
TTGGGTTTAGCAAAAGTTTCTCTCTGTCATCCTTAAGTGAAGTGTCTCGACAGCCCGGGAGACGAGC  
CCTCGGAGTCCCCATACGAAAGTGCAGACGAAACACAACTGAAGTATCTGTCTCATCCAAAAGTCTGAGCGAG  
GAGTGAAGTGCACAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACCCT  
GCTGCGGAGCTTTCCACCTCGCCTGCCTTGGGCTTTCCCGGAGGCCAGAGGAGGTTACCTGCAGCGAGTGTG  
CCTCAGGTGTGCGCCGGCAGTCTGGGGTCTGTGAGGATGATGAGAGGACACCTGCACAGCCGTGGCCCTTCT  
GCCTACTACCCGGGCCAAGGAGTCTCCTATCTCACGTGAGAACACTTCTGGGTGAGGAAGACACCTGGAGAGT  
CTCCCAGGCCATGGCAGCCCCACAGCAGCACCTCACTTATGGGAGTGTCTGTCTGCCTGCCAGAAATGATAAGTG  
ACTGCTCCACCACTGGCCAGCTGCTCTCAAGGAGGAAAGGCCTCTTTTCAAGGAGCCCTTCTTTCAAGCTTCT  
TGCCAGTTAGACTGGGCCCTCCCAGCCAGGCTGCCTAGTAAGATTCTCCTGTATTTAGGTGAAGCTGGAGCTCA  
GATCGCAGCAAGGTAATCCTTGATGGCTGGATCTTTTGGTGGAGAATGCTTGGACTAGTGAGCAAGGTTGGAAA  
CAGGGCCAGGTGCTTTAGCAGCGTGGCTGCCTCTGAAGAGGAGTGTGCTTGAATTTAGTGGCTCAGAAGTCAATT  
TAATCTTGTCTTTGCACCTCTCTCTCCACCCCTCTTTAACTTTTGTAGGGATTCACTCATGTTTCGTGTG  
TAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACCTCAGTGTGAAAATTTTACCATGAGGCTTGTGTGAA  
AAAATACCTCTGACTGTATTTGAGAGCCGAGGTTTCCGCTGCCCCCTCCACAGCTGTGTGAGCTGCCATGCTTC  
CAACCTTCAAAACCAAGGCCGTCAAAAGGTAAAATGATGCGGTGTGTCCGCTGCCCCGTGCTATCACAGCGG  
GGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAGCATCATCTGCACTGCCACTTCACTGCTCG  
GAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGTCTCGTGTCTCAAAGGGGGGAGCCTTCTGTG

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**FIGURE 1378B**

CTGTGAGTCCTGCCCAGCGGCCCTTCCACCCTGACTGCCTGAACATCGAGATGCCTGACGGCAGCTGGTTCTGCAA  
TGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTGGGTGAACTTGGGAACCTACAGATGGTGGCC  
GGCAGAAGTTTGCCATCCCAAAAATGTTCCCCCAAATATTCAGAAAATGAAGCACGAGATTGGAGAATTCCTGT  
GTTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCGAGTGTTCCCGTACATGGAGGGGGACCGGGG  
CAGCCGCTACCAGGGGGTTCAGAGGGATCGGAAGAGTCTTCAAAAACGCACTGCAAGAAGCTGAAGCTCGTTTTCG  
TGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGAGCGCAAGCCCCACCATAACAAGCACATCAA  
GGTGAATAAGCCTTACGGGAAGTCCAGATCTACACAGCGGATATTTAGAAAATCCCTAAGTGCCAACTGCAAGCC  
CACAGATGAGAACTCTTGTGGCTTTGATTTCGGAGTGCTGAACAGGATGCTGATGTTTGAGTGCCACCCGAGGT  
GTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTACCAAGCGCCAGTACCCAGAGACCAAGATCATCAAGAC  
AGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGGGAGAATTTGTTAACGAGTACGTTGGGGA  
GCTGATCGACGAGGAGGAGTGCTGCGGAGAAATCAAGCACGCACACGAGAACGACATCACCCACTTCTACATGCT  
CACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAACTACTCTCGATTTATGAATCACAGCTGCCA  
GCCCAACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCGTGTGGGCCTGTTTGCCGCTCTGTGACATTCC  
TGCAAGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCAATGAAAAACGGTCTGCCGGTGTGGAGC  
CTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGACGACCCTTTCATCAGAGGAAAAGGGCAAAAA  
GACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAAGAGGAGTCAAGAGGACGAGTGCTTCCGCTG  
CGGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCACCAAGGCCTACCACCTGTCTGCTGGGCCCT  
TGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTGTGACGTGTGTGGCAAACCTTCGACTTCATT  
TTGCCACCTCTGCCCAATTCGTTCTGTAAAGGAGCACCAGGACGGGACAGCCTTCAGCTGCACCCCGGACGGGCG  
GTCCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAACCAAGACTGAGAAGCCCCCCCCAGAGCC  
AGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAGAGTCAAGAGGGCAAATAGCGCCAGGCGGC  
CGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCGGCCCTGCTCGGGAGGAGGCGCCTCCCCACCACTGAGCCA  
AGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTCGGGAGGAGCGCCTCCCCACCACTGAGCCA  
TCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCAGCTCAGCGTTCCTGGACAAACAGCCTCA  
CTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGGTTCCCTCCCACTCTATTTTTTTAGGTTAA  
GTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAGCGTAGGCTTTTCCCAAGGGTCGCTAGAAAC  
TCGCTCTCGCGTTGCCCTTTCTGGCTCTCAGCGCCGTGCGCACTCGGGAGAGGCTGGGTGAGGCCCGTGTGAG  
GACTGACCTGGATTCTCGAAACTGCCATTGTGATCATTACTCTGCTCTTTGGAATGGCTGTATCATTTTTTT  
GTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTTCCATCCTAGTGAGAAGCTGGCCCTGCAGGTGGTGGCAG  
CAATGGTGTTGTAAGATTTCTCCTCCGTAAGTTTCTTCTCCTCATGGATTGGAATGAAATGCCAATAACACGTCCAC  
TTTCAACGTGTAGTTTACGCGGAGCACTTTCAGGCCTGGCCGGTTGGGCCTACTTCTCACCTGGGCCTATCTT  
CTGAACCTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATATTTTTTTTCAATTTGGCTTTTCTTACCAG  
TTTCTGATTTTTATTCTCAATATATTTTTGCTAAACCTATTTACAAATCACCACCGACTGAAGTGTGTGTTTAC  
TGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGGCGTGAGACCGCAGTCTGCTTAGAGCACAGG  
AAGTGACAACTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCGGGGACCCAGCACGTGGGTCTAAAGAGAGACGG  
AGTCTAGCTCTCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTGTGGGTCTGGTGATGGAAGATGCAGTCTC  
TGCTGATCACATGTGCCCTTGCCAGGGCACCTACTGAGAGGTGCGGTCTGGGGGTGGAGGCCTGCCTGGCAGG  
TGTGCGTGCCCTCGTACGTGTGTTATGGGCACCTGGTCTAGGCCAGGTATGACACCCACTCTCCTGTGAGATTTAC  
TTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCTGAGTACTACATATGTTTTAAGACTTGGT  
TCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCTGAGAAGGGGGCACCATGTGTGCCTTTGCCC  
ACGTGTCCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAATTACAGCAGCAGGTGCTTTTTTATGGCCTTTT  
CTTAAATAACCTAAGGGGGACACATCCATCTTCAGAGAAGTTTACAGAATCCCTTGAAAATGCTGCTGAG  
GCTCCTGTTAAATTTTCTGTGGCATCTTTTATGCCCTTGGTAAAACTGCAGTGTCTTTGGACCTGAGAGTGGCTA  
CTCCGTGGTTTTGTGACCTGTAAAGCGTGGGGTTCAGGGGTGTGTGGCCCTGCAGGGTCCACGCCTCCTGAGCA  
CTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCATCAGGGTCCCCAGCAAAGTTAACTACACAGAGG  
ACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGTCTGCGCGGGCGTGGCCTCTGAGGGGCACTGCGCGTTAA  
GACAGGGTGGGAGTAGTCTTTCCAGTTCAGACTCTAACTTCTCCCAAAGTGTCTTAAGAAAATACTGGATCGGC  
TCATAGATTTATGCTCCTTATGATGCCCTAACTTGAAGGTTGTTCTAGGGACAGGCCGGGCAGTGTCCCCACAC

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**FIGURE 1378C**

ACACCTTAGAGTCGAAGGCCCCAGGGCCCCGCTGTCACCTTGCCCAAAGATCCCTTCCGGCAGGTAAGGGACTAC  
CAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCACCTTGGGGAGCAGATATTAACCTATTTTGTGTT  
GGACAGTAGTGAAATCTTGTGATTTTAAATCGCTTGATAATACTTCCAAATTTTATGATTTTCTGAAGGAAAT  
AATGCAAACATTTTAAATATGTTTCTCCCCCTTTCCAAAACCTGTAAACTAATGAGCAAGTAACACTAACCTTG  
AATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTGGGGTAGCGGCCCTGAGCTTGCAGGGTTTC  
TCGCCACTGGGGCTGACCACGCCCCAGCTGTGACCGTGGGTGTGGCTGGCTCTCGGCCCTGCCAGCTTGTTC  
TGAGGACGTGGTGACTTCTTGAACATCAGCTTCAATCCTCCATCATTAAATGTGAAGCAAAACACAAAACCGCCC  
CAATCCCTCAGGATTCTTGGCATCCGAAACCAGCATCTGCACCTAAACCCATACCCACCCGTGTGCGCCACAG  
GGGATGTGTCCGAATGGGCAGCTTAAATGTGGTCACCTGTGGGGGAACTCTTCAGGCACCTGAAGTGAGAAC  
CCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCCATGGCTGGCTGGGTCCCTTCGCAGTGT  
TTGTCTGTCTTGACATCTAAACCCGGCGTGTGCAGTGGCCATCTTCCAGGACTACCTTATTTCCAGAATTAAA  
CCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAAATATCTTGATCCTGTGAGTGTAGTTGATGA  
CTGTTTGTAGTCAGTAGAGTAAATGCTGTGTCCACGGGGTGTACAGCCTCACCATACCCTGTTGAGGTGTGA  
AATGCCCCGTCAGAAATTAAATACAACTTAAATGTGCCTATTGGTGTCTAACTTCATACAATGTAAGGTCAGA  
TTCCTTTTAGGAATACTGGGTGCTGTCACCAGGTTGATAGTTAGACTTAAAACTTGAAATCACTTTTGGGG  
GGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAAATAGCATTAAATGGAAGCTGTGTT  
TGGAAATGTGIATGAGTATTTTGTATTAAAAACATTTTAAAGGCTTTTTTCTTAA

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**FIGURE 1379**

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFI  
ADKLKDLTSRVFNGEPGAHDAKLRFESQEMKGIGTPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD  
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVGD  
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ  
APTAEKIKLLKPI SGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE  
SSGVSEAAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTVMSPR  
SRKGDAAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQARYNTKFALVAPVQAEEDSGNVNGKK  
RNHTKRIQDPTEDAEAEDTPRKRLRDKHSLRKRTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR  
NRSTAASSALGFSSSSPSASLTENEVSDSPGDEPSESPIESADETQTEVSVSSKKSERGVTAKEYVCQLCEK  
PGSLLLCEGPCCGAFHLACLGLSRREGRFTCSECASGVARHSLGSVRMMRGHLHSRGPSCLLTGPKESPISRQN  
TSWVRKTPGESPRPWQPHSSTSLMGVSVCLPRMISDCSTTGQLLSRRKGLFS



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**FIGURE 1380A**

TGGTCTTGAACTCCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC  
GTGCCTGTCTAGAACCACTGGTAACTCTTAAGTGAACAAGATTTCGCCATGTTGCCAGGCTGGTCTCGAACT  
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC  
CTTGCCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTCCTGGACACTTGTGGTGGCAGAGCTGTCTGCTT  
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTGAGGTGTCCTCCACCTCAGTACT  
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC  
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCCCTTT  
CTGTTTCAGAGTGTTGTAAAGTGATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAACGGGAAGACTC  
CGAGCTGCGAGGTGAACCGCGAGTGTTCTGTGTTCTCAGCAAAGCCAGCTCTCCAGTAGCCTGCAGGAGGGGG  
TCATGCAGAAAGTTTAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG  
TGTTTAAATGGAGAACCCGGCGCACACGATGCCAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC  
CCCCTAACCTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAATCACCAAAACATACATGAATGGGA  
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAC  
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCCTTGTGCAAG  
CAGCTCTTGTGTCTAAGATCTCAAGTCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG  
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTGGTGTTGGTCCAAAGTGTCGGGTTACCCCTTGGT  
GGCCTTGCGATGGTTTCTGCAGATCCACTCCTTCACAGCTATACCAAACCTTAAAGGTCAGAAAAGAGTGCACGCC  
AGTATCACGTACAGTTCCTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG  
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT  
TGAAACCAATTTAGGGGAAATTGAGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT  
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACAGCTTCATCTCAACCTCAAGTAGCCA  
AGGAGGCTGGCATTGCTGCAGAGTCTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA  
ACCCCAAGTCTGTGAGAGAAGAGTGCATTCCCATGAAGAGAAGGCGAGGGCCAACTGTGTAGCTCTGCAGAGA  
CCCTGGAGAGTCACCCGACATAGGGAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCCAAGAGAGGAGTAG  
GGTCTCCTCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTT  
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC  
TGCTCAGGTCACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCAGCTACAACACCAAGTTTGCCCTGGTGGCCC  
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAATGGGAAAAAAGAAACACACAAGAGGATACAGGACCCTA  
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA  
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGACGCTCCTCGCTCAAGAGCCAGGCAG  
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCACGGCAGCCATCTCAGCTC  
TTGGGTTTAGCAAAAGTTTCATCTCCTTCTGCATCCTTAAGTGAAGATGAGCTTTTGTGGGAGCCACACAGTCA  
AGTTGGATTGAACCCAGCTGCTCTGTACTGCATGAGATGATGTAATATTCCAGGATGCTGCTGAGGTGGCG  
TATCATCGTACACACTCAGTGACATTTCTATCACAATCATTTTATGGAAGATGTGTGATAATCTGTTTTACTGG  
TATTAATAAACACATACAATGAAGAAAACAGATAACAAATTTTAAGACCAAGGTCTCGGACAGCCCGGAGACGA  
GCCCTCGGAGTCCCCATACGAAAGTGACAGACGAAACAACTGAAGTATCTGTCTCATCCAAAAGTCTGAGCG  
AGGAGTGAAGTCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACC  
CTGCTGCGGAGCTTTCCACCTCGCCTGCTTGGGCTTTCCCGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTG  
TGCCCTCAGGGATTCACTCATGTTTCGTGTGTAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACTCAGTG  
TGGAAAAATTTACCATTGAGGCTTGTGTGAAAAAATACCCTCTGACTGTATTTGAGAGCCGAGGTTTCCGCTGCCC  
CCTCCACAGCTGTGTGAGCTGCCATGCTTCCAACCCCTCAAACCCAGGCCGTCAAAGGTAAAATGATGCGGTG  
TGTCCGCTGCCCCGTTGCCATACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAG  
CATCATCTGCACTGCCCCTTCACTGCTCGGAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGCTT  
CGTGTGCTCCAAAGGGGGGAGCCTTCTGTGTGTGAGTCTGCCAGCGGCTTCCACCCTGACTGCCTGAACAT  
CGAGATGCTGACGGCAGCTGGTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTTG  
GGTGAAACTTGGGAACACAGATGGTGGCCGCGAGAAGTTTGCCATCCCAAAAATGTTCCCCCAATATTAGAA  
AATGAAGCAGAGATTGGAGAATTCCCTGTGTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCG  
AGTGTTCGGTACATGGAGGGGACCGGGGAGCCGCTACCAGGGGTGAGAGGATCGGAAGAGTCTTCAAAAA

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**FIGURE 1380B**

CGCACTGCAAGAAGCTGAAGCTCGTTTTTCGTGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGA  
GCGCAAGCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATAT  
TTCAGAAATCCCTAAGTGCAACTGCAAGCCCACAGATGAGAATCCTTGTGGCTTTGATTCCGAGTGTCTGAACAG  
GATGCTGATGTTTGTAGTGCCACCCGAGGTGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCG  
CCAGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAA  
GGGAGAATTGTTAACGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACA  
CGAGAACGACATCACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAAA  
CTACTCTCGATTTATGAATCACAGCTGCCAGCCCACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCG  
TGTGGGCCTGTTTGCCGTCTGTGACATTCTGTCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGG  
CAATGAAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGAC  
GACCCCTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAA  
GAGGCAGTCAGAGGACGAGTGTCTCCGCTGCCGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCAC  
CAAGGCCTACCACCTGTCTGCTGGCCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCCTTGGCATCATTG  
TGACGTGTGTGGCAAACCTTCGACTTCATTTTGGCACCTCTGCCCAATTCTGTTCTGTAAGGAGCACCAGGACGG  
GACAGCCTTCAGCTGCACCCCGGACGGGCGGTCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAG  
CACCAAGACTGAGAAGCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAG  
AGTCACAGAGGGCAAATAGCGCCAGGCGGCGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCGGCGGCTGCCT  
GCGGGAGAGGGCGAGCATGAAC TGCCCGGAGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCCTCCTC  
GGGAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCC  
CAGCTCAGCGTTCTTGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGG  
TTCCCTCCCACTCTATTTTTTTTAGGTTAAAGTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAG  
CGTAGGCTTTTCCCAAGGGTCGCTAGAAACTCGTCTTCGCGTTGCCCTTTCTGGCTCTCAGCGCCGTCGCCAC  
TCGGGAGAGGCTGGGTGAGGCCCGTGTGAGGACTGACCCTGGATTCTCGAAACTGCCATTGTGATCATTACTCT  
GCTCTTTGGAATGGCTGTATCATTTTTTTGTACTAATGTGAATTTCTCCTCAGAAACGCTTCTTTTCCATCCTA  
GTGAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTCTCCTCCGTAAGTTTTTCTCCTCATGG  
ATTTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTTCGAGGCCTGGCCGGG  
TTGGGCCTACTTCTACCTGGGCCTATCTTCTGAACTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTA  
TATTTTTTTTCATTGGCTTTTCTTTACCAGTTTCTGATTTTTTATTCTCAATATATTTTTTGCTAAACCTATTTAC  
AAATCACCACCGACTGAAGTGTGTGTTTACTGATCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGG  
CGTGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGCAACTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCGGGG  
ACCCACGACAGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTC  
TGTGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCAGATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGC  
GGTCTTGGGGGTGAGGCCCTGCCTGGCAGGTGTGCGTGCCTCGTACGTGTGTTATGGGCAGTGGTCTAGGCCAGG  
TATGACACCCACTCTCCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAGACCTATCTAT  
CTGAGTACTACATATGTTTTTAAGACTTGGTTCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCCCT  
GAGAAGGGGGCACCATGTGTGCCTTTGCCACGTGTCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACAT  
TCAGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTT  
ACAGAACTCCCTTGAAAACCTGCTGCTGAGGCTCCTGTTAAATTTTCTGTGGCATCTTTTATGCCTTGTTAAAA  
CTGCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTGTGACCTGTAAGCGTGGGGTTTCAGGGGTGTGTG  
GCCCTGCAGGGTCCCACGCCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCA  
GGGTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGC  
CGTGGCCTCTGAGGGGCACTCGCCGTTAAGACAGGGTGGGAGTAGTGCTTTCCAGTTCAGACTCTAAGTTCTCC  
CAAAGTGTCTTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAAGTTGGAAGGTTGTT  
CTAGGGACAGGCCGGGCGAGTGTCCCCACACACCTTAGAGTCAAGGCCCCAGGGCCCCGTGTCACTTGCCCCA  
AAAGATCCCTTCCGCGAGGTAAGGGACTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCATTT  
GGGGAGCAGATATTAAGTTATTTTTTGTGTTGGACAGTAGTGAAATCTTGATTTTTTAAATCGCTTTGATAATACT  
TCCAAATTTTATGATTTTTTCTGAAGGAATAATGCAACATTTTTAAATATGTTTCTCCCCCTTTCCAAAACCTGT  
TAAACTAATGAGCAAGTAACACTAAGTTGAATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTT

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**FIGURE 1380C**

GGGGTAGCGGCCCTGAGCTTGCAGGGTTTCTCGCCACTGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTG  
GCTGGCTCTCGGCCCTGCCCAGCTTTGTTCTGAGGACGTGGTGAATTCCTGAACATCAGCTTCAATCCTCCATCA  
TTAATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCCCTGGCATCCGAAACCAGCATCTGCACCT  
AAACCCATACCCACCCGTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAATGTGGTCACCTGTGGG  
GGAAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGT  
CCATGGCTGGCTGGGTCCCCTTCGCAGTGTGTTGCTGTCTTGACATCTAAACCCCGGCGTGTGCAGTGCCCATCT  
TCCAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAA  
ATATCTTGATCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAATGCTGTGTCCACGGGGTGTG  
ACAGCCTCACCATACCCGTGTTGAGGTGTGAAATGCCCGTCAGAAATTAATACAACTTAAATGTGCCTATTGG  
TGTCTAAACTTCATACAATGTAAGGTCAGATTCCTTTTAGGAATACTGGGTGCTGTCACCAGGTTTGATAGTTAG  
ACTTAAAAACTTGAAATTCATTTTTGGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGG  
AAAATAGCATTTAAATGGAAAGCTGTGTTTGAAAATTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAG  
GCTTTTTTCTTAA

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**FIGURE 1381**

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFIP  
ADKLDLTSRVFNGEPGAHDALRFESQEMKGIGTPNTPPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD  
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLKYNVGD  
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ  
APTKAEKIKLLKPISGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDLHLNPOVAKEAGIAAESLGEMAE  
SSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTIVSMR  
SRKGDAAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQRARYNTKFALVAPVQAEEDSGNVNGKK  
RNHTKRIQDPTEDAEAEDTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSAATKNLSDACKPLKKR  
NRSTAASSALGFSKSSSPSASLTENELLWEPTPVKLDLNPAAALYCT

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**FIGURE 1382**

TAGCGAGGGACGCGTAGGTGTCTTCATAAGATGCCGGGGCAGCGGCGCGCTTTCCCCAAGATGGCGTCCATG  
CGGGAGAGCGACACGGGCCGTGTGGCTGCACAACAAGCTGGGGGCCACGGACGAGCTGTGGGCGCCGCCAGCATC  
GCGTCCCTGCTCACGGCCGCGGTTCATCGACAACATCCGTCTCTGCTTCCATGGCCTCTCGTCGGCAGTGAAGCTC  
AAGTTGCTACTCGGGACGCTGCACCTCCCGCGCCGCACGGTGGACGAGATGAAGGGCGCCCTAATGGAGATCATC  
CAGCTCGCCAGCCTCGACTCGGACCCCTGGGTGCTCATGGTCGCCGACATCTTGAAGTCCTTTCCGGACACAGGC  
TCGCTTAACCTGGAGCTGGAGGAGCAGAATCCCAACGTTTCAAGATATTTTGGGAGAACCTTAGAGAAAAGGTGGGT  
GAGTGTGAAGCGTCTGCCATGCTGCCACTGGAGTGCCAGTACTTGAACAAAAACGCCCTGACGACCCCTCGCGGGA  
CCCCCTACTCCCCCGGTGAAGCATTTCAGTTAAAGCGGAACCCAAGAGCGCCACGCTGCGGGCGGAGCTGCTG  
CAGAAGTCCACGGAGACCGCCAGCAGTTGAAGCGGAGCGCCGGGTGCCCTTCCACGCCAAGGGCGGGGGCTG  
CTGCGGAAGATGGACACCACCCCACTCAAAGGCATCCCGAAGCAGGCGCCCTTCAAGGCCACGGCGCCC  
AGCGTCTTCAGCCCCACAGGGAACCGGACCCCATCCCGCCTTCCAGGACGCTGCTGCGGAAGGAACGAGGTGTG  
AAGCTGCTGGACATCTCTGAGCTGGATATGGTTGGCGCTGGCCGAGAGGCGAAGCGGAGAAGGAAGACTCTCGAT  
GCGGAGGTGGTGGAGAAGCCGCGCAAGGAGGAACGGTGGTGGAGAACGCCACCCCGGACTACGCAGCCGGCCTG  
GTGTCCACGCAGAACTTGGGTCCCTGAACAATGAGCCTGCGCTGCCCTCCACGAGCTACCTTCCCTCCACGCCC  
AGCGTGGTTCCCGCCTCCTCTACATCCCCAGCTCCGAGACGCCCCAGCCCCATCTTCCCGGAAGCCAGCCGC  
CCACCAGAGGAGCCAGCGCCCGAGCCCCACGTTGCCAGCGCAGTTCAAGCAGCGGGCGCCCATGTACAACAGC  
GGCCTGAGCCCTGCCACACCACGCCTGCGGCGCCACCTCGCCTCTGACACCCACCACACCTCCGGCTGTGCGC  
CCTACCACTCAGACACCCCGGTTGCCATGGTGGCCCCGAGACCCAGGCCCTGCTCAGCAGCAGCCTAAGAAG  
AACCTGTCCCTCAGGAGAGAGCAGATGTTGCTGCCAGGAGATGTTCAAGACGGCCAACAAAGTCACGCGGCCC  
GAGAAGGCCCTCATCCTGGGCTTCATGGCCGGCTCCCGAGAGAACCCTGCCAGGAGCAGGGGGACGTGATCCAG  
ATCAAGCTGAGCGAGCACACGGAGGACCTGCCCCAAGCGGACGCCAGGGTAGCACAAACCATGCTGGTGGACACA  
GTGTTTGAGATGAACTATGCCACGGGCCAGTGGACGCGCTTCAAGAAGTACAAGCCCATGACCAATGTGTCCTAG

AACCACCTGCCTCACAGCTGGCCGTCACCTTGTGGGGTCCACGGGACGATGGCTTTGCCAGCTTAAAGTAACCGG  
ATGGCGGACACCTGGCCCCGAGTCCCCCGGCCGCCGCCCTGCTGCTGACCCAGCCTGTTTTAAGTTCTGGATG  
CATTTCTCTGGGGTATTTGGGGCTTATTTTTAAATTTTAATATGGGTTCTTTTTTGTGTGATTTAAAGACACTT  
TTTGGACTCAACGTTACATTTTTGAATGTAGTAAGTAAATTAACCAAAAAAGTTACAACCTCCTAATTTTAGTGA  
CAGCTCTGCCTGTTTGTAGACTCTTACTTTTTAAATCTTTTCTATTTTCCCTCGCTGGGGCAGTGCCTCCTA  
CCCCAGGGTTGAGGGGACCAAGGTGGCACGGTGGTACTGGGGGTGCGGCAGGGACACCCGACCACACCAGAGCG  
TGGGAGACGGTGGGCCTTGTCCCCTGCCTGCTGCTGGGAGTTTTGTATTCTTTTGTATAGTTGTGGAC  
ATTTAAGACAGTCTTTGGGTACCTATTTTCAATTGTAATACTATCTGAACCATTAAAGTCGAGCTTTTCTAAAGAA  
AAAAAAAAAAAAA

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**FIGURE 1383**

MASMRESDTGLWLHNKLGATDELWAPPSIASLLTAAVIDNIRLCFHGLSSAVKLKLLGLTLHLPRRTVDEMKGAL  
MEIIQLASLSDPWVLMVADILKSFPDTGSLNLELEEQNPNVQDILGELREKVGECEASAMLPLECQYLNKNALT  
TLAGPLTPPVKHFQLKRKPKSATLRAELLQKSTETAQQLKRSAGVPPHAKGRGLLRKMDTTTTPLKGIPKQAPFRS  
PTAPSVFSPTGNRTPIPPSRILLRKERGKLLDISELDMVGAGREAKRRRKTLD AEVVEKPAKEETVVENATPDY  
AAGLVSTQKLGLNNEPALPSTSYLPSTPSVVPASSYIPSETPPAPSSREASRPPEEPSAPSPTLPAQFKQRAP  
MYNSGLSPATPTPAAPTSP LPTTPPAVAPTTQTTPVAMVAPQTQAPAQQQPKKNLSLTREQMFAAQEMFKTANK  
VTRPEKALILGFMAGSRENPCQEQGDVIQIKLSEHTEDLPKADGQGSTTMLVDTVFEMNYATGQWTRFKKYKPM  
NVS

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**FIGURE 1384A**

TCCCAGCCTGAAACCAACACATTTTCTAATAAGTTATTTAGACAGAATAGCACTCTGCATGACTTTAATTCTTGG  
GACAAAACGGTAGTTTGTACCCTAAGACACAGTTTCTGGCCCAGTGTGATGGGGGTGGGTGGCCGGGTGGGTGGA  
GCGTTTTGTGTTGGAAACCTGGAGGGAAACCTGATTGGATGTCATTTCTGCCATGGAGCACGCCCTCCAGCC  
CTGGCCTGCAGGGTGGGCAGGGTGGGGGGCAAGGGAGTCCGCAGCCTCCGGGAGGAGGGGCAGGGCGCTGCCTTG  
GGCTGGGTGGGAAGAGGGGTGGCCGCTCGGCTTCCGCTGGCCATGCTCCTGGTCTCTCCTTCTGAGGTACAG  
GCAGGGGCTGCCCTGGACGGGGGGCGGGGGGGGTGGCCTGGAAGGGGAGACAGAGGTGGAGGGTGGCACAGGCTG  
CACATTACAGCTTAGAAGTGGACCTGGCTTTGGTGGCAGGAGAAGAATAAACACTTGCCAGACCCCTTTGTGTGG  
GGGAATTGGGGAGGGGTCTGGCAGGCAGGGTGGGCCACGGAAGTGGGTCCCAGGCATCAAGGCCACGTGCAGGG  
CCATGGAGGGATGCTTCTCACGAGGCGCTTCAGAAGCGAGCGAAGGGACAGAGAAGCCCTGCGTCCAAGGGCCTT  
TTGTCTGTGTAGCAATTGAGGTGTGCAGAGCACTGTACAGACCCCACTCCCCTGTACATTCTCCTGGAGGTGC  
CCGGTCCCCGCTTGGGGATGGGAGTTTTGTAGACTGTACAGAAATCGGCACCCTATTTTCTTGCAGCTCAGATT  
TGTTAATCTGGAATATACAGACAGACGTAAAGTGTTTTAGCAAAATGGAAACAAACAGTTGTGCCTTTTCTCT  
TTTGGTTTGGTTTGGGTTTGGCCTGGGGCTGGTCCCAGTTGGTGGGGGCATGCTGGGGGCAGGAGGGGCAGGGC  
GGGCCAGGTGGAGTCAGGTCTTGGGGGTGTATGTCGGGGTGTGCCAGCGTCCCTTGGTCTGTGCCCTTGGAG  
CCTCGGGCTCCTGGGGTGCAGGGTGTGGGGGTGGCTGTGGAGCCACCGACGCCAGGGCAGGGCCTGGAGGC  
CCAGGGACTGCCAGTGTCTCCTTGATATTGATCCTAGCAGATCCCCCTCCTGGGGGTCTGAGAGTCTGGGCAG  
TGTGGCCTTCTCTCATTCTGGTGGCATCTGCGCCCGTGAGTGACCTCTTCTTGGCTGCACTGCCCTGTGGGTGG  
TGAGACGCTTGGCCTTTTTTGTGTGTGCCAGGACTTGGTAGAGATGGCAGGAAGGGTGTGCGGGGTGGTGTGTG  
CAGAACCCTGCCGCCCTGAGGTGAGCAGAGGCACTGGTGTGTGCCAGGCTGGGGCGGAGCTGCCCGGAACCT  
TGCCAGGCCAATGTGTAGCTTGGTGGCGCCCTTGAAGGCCACTGGGGGGTAGGTGTGTCTCCCCGGGGCTGGA  
GGCCGGGTGCTGTGGTGGGCTGACCTGGCCCACTCATCCCTCCAGCCTGGGATCTCACTGCTCTGCACCT  
GTGCACTGACGTGAATTTTATACGTTTGTAGAACTCTGATGTAACCTCTTCTACCTCTGAAGCGCCCTCCTGGG  
CCTGCTGTACAGTGGCTGGTGGCGCTTCCCCGAGTGCTGGCCCCCTGCCCGCTCCCATGGGCACCCACCACTC  
AAACTCTGCGTGTGTAGGCCCCGGGGAAGCCAGGCCGGGGCCCTAGCACTGCTCAGGGGCTGGGGCTCCTGGGAT  
TTCTGTGTGTTTGAAGCCTCTGTTTTTGGAGTGGGGGGCTGGAAGGCGGGAGGGGCTGACAGTGCCTGGGGCC  
AGAGCTGGGCGAAGGAGGACATCCTCACTGGACGAGCACTGCAGGCCTGACGAGAGGCTCCGGGCAGCTGAGGGC  
TGAAGCGCCTCGGGATGCCCCCACTGCCCAGAGCCACGGGTCTTGTGTGTGGGGGTGGGGTGGCCCCAGGCA  
GCTGCCACTGCCCAGGTGTGAGTCGCTGCAGACCTGGTCCCTGAGGGTGGGAGGCCTGCTTGTGTGAAGCTGCC  
ATGTGGTCTGGCCCCCAGAAGGGCTCCTGAGCGTAGGGAGTTGAGCCCCGACCGTGGCGGCATCTCCTCCTCC  
TTCTCCGCCCATGCCAGCCTTGCTTCCGGCTGGTGGCATGCCCTGGGGCCGGGCAGCAGGTGAGAAGCTGCC  
CCCGGAGGGAGGGGGCCAAAGGCTGGGTGAGTCTGGCCTGAGGGGTGGATGGCTGGCCCTGGGGGAAGGCTGGGC  
TGGGAGGCCCTGTGGACAGCAGGCTGAGGCCACGAGGTCTGGGGCCACCCCTCTCTGCTCTGGGTGTCTCTC  
TCAGAGAAGATGGCAGAAGGCTGCAGGCCCTAGAGGGGACGACGGGCTGGGGACGCCCTGAGCTTCTCTGGCTGTG  
TGGCAGGTGTGTGGGAAGCTCTCTGGGCCATAGGGACCTGGCTCCCTCTGAGAGGCCCGCCTGCCCTGGGACAC  
CCAGGGCTGTGTGGTGGCCTGAGGCTGGGAAGTGGGTTCTTGGGCTCTGCTGGCGCTTGGGCTTTGTGGGGC  
CGAAGGTGGTGGCCCCGCCGGGCAGGGGGCTGTGTGGGCCCTCGTGGGGCCACCTTCTGTGAGTGGCCGAGGGA  
CGGTGGGACAGTTGCCCTGCGCCAAGGGAGCCCACTGCCATCCCCCGTGGGCTGGCGCTGCAGTGCAGCACCTT  
GTGTTGCCCTGCTGACTTGCTTATGTCTGTTTGAAGCTGCTTCTGTTTGGCCACAGGCCTGTGTTCTGGGCTGA  
TGGCCACAGAGCTGACACTTGGGGTTTGAAGTCCAGACTTGACAGCCCTGGGATCCGCTTACTCCTCCGCGCCAC  
GGCTGCTGTGCTTCCAGAGGTGGCGTGATGCCCTCCCGGGGCCACGTTGGGGTGAAGGATGGCGAGCCGGACATAC  
CATTGTTGGATGTATTTTTTTTAAACAGCAATAATTAGCCATTTTAAAGGAGGGATGTACCTGTGTGTGTGCAT  
GTGCACGTGTTTGGCGTGTGTGTGTGTGTGCAAGTGGGTTCTTGGATATGTGTAGTGTGAGCATGTGTGCATGT  
GTGACCTGTGCAGTGCATGTTGTAGGTGCATAAGCATGTACACGCGTGAGCATGCATGTGCGTGTACACGTGT  
ATAGGTGTACATGTGCATGAGTTGTGTACATGCGTGAGCAGCTGTATAGATGTACGTGTGTGTGCGCATGTGTGC  
GTGTACATGTGTTTGTGTCTTGGGTATGCATAAGCATGCACGTGTGTATGAATGTGCGTGTGTATGCATGAGCAC  
GTATGCATGTGTGATGCGCATGTTCTTGTGTACTTCTCTGAGGGGGCACATATGTATGAGTGTATGAGTGCATAC  
ATATGCATATGGTGTACGTGTGTGTACTTTGTGTGTGGGCATGTATGCGTATGAGTACTTGTGTGTGGCTGGTGT  
ATGGGTGAGCATGCACATGTGTATGGATGCATATGTGAGCTGTACATGTAGAGTGTACATGTGTGTGTGCATGAGC

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**FIGURE 1384B**

ATGCATGCGTGCGAGTGCCTGTGTGTGTACTTGCAATATATGTGGCTGTGCAGGTACCCGGCGGTGGTGGGCTGGC  
AGTGCCCGGGGAAGCAGGTCCCTGCTCACGGCTTCCCTGCTGGGCCCCAGGCCCCGGGCTGAGCCTCCCTGGCCCC  
TCTTGCCCCCTCAGTGGAGCAGGGCCTGGGTGGAGGGCCTGGGCAGCTCCAGGGCAGGTCCGGGGAGGCCAGGCTT  
GGGGAGCACAGGGGGTGGGGTTCACCTGCTGCTGTTTGTTCGAACTGTACTGTGAGCCACGGCGGGGGCAG  
ATTGTTCTGAGGCCCCAGATGTGCCAAAACAGCCCCAGGGTGGGGGCGAGCGAGTTCTGAGGAGAGGGGCTGCG  
GGGGCCGGGGTGGGTGTGTGCCCCCTCCCCTGAATGGCCCCCAATGCTGCTGTTTTCAATAAAACCAGAGTTGA  
AGGC



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**FIGURE 1385**

MSMHACECLCVYLHICGCAGTRRWAGSARGSRSCSRLPCWAPGPGLSLPGPSCPSVEQGLGGGPGQLQGRSGEA  
RLGEHRGWGSPAAVCSRNCTVSPRRGQIVLRPQMCQNSPQGGGERVLRRGAAGAGGGCVPLP

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**FIGURE 1386**

GAGGAGCTCTCCTGGGCGGCTGAAGAAGGAGCTTCTTCTCCGGAGTGCGAAGGCGGTGGCGCCTGCGGACCTAAC  
TAGCTCCAGGTTAGGCCGAGCTTTGCGGGAAAGCAGCGGACTTGAAAATACTGGAATCTGTCCGGATCCAAATT  
ATTTTGCAAGCCAGATGAGTAACCAGAGGGCATGAAAGGTTGAGAACATTTGACTTCCCTGCAAACTTGGTATA  
GATCACTTCCTTTTCTGTAGGAAAGGAAAGGCACCAAGAGCACAATGAGTACAAGAAAGCGTCGTGGTGGAGCA  
ATAAATTCTAGACAAGCTCAGAAGCGAACTCGGGAAGCAACCTCCACCCCGAGATCTCCTTGAAGCAGAACCC  
ATAGAACTCGTGGAACTGCTGGAGATGAAATTGTGGACCTCACTTGTGAATCTTTAGAGCCTGTGGTGGTTGAT  
CTGACTCACAATGACTCTGTTGTGATTGTTGACGAAAGAAGACCAAGGAGGAATGCTAGGAGGCTGCCCCAG  
GACCATGCTGACAGCTGTGTGGTGAGCAGTGACGATGAGGAGTTGTCCAGGGACAGAGACGTATATGTGACTACC  
CATACTCCCAGAAACGCCAGGGATGAGGGCGCTACAGGCCTCAGGCCCTCAGGTACTGTGAGTTGTCCCATCTGC  
ATGGACGGATACTCAGAGATCGTGCAGAATGGACGCTCTCATCGTTTCCACAGAATGCGGCCATGTCTTCTGTAGC  
CAGTGCCTCCGTGATTCCCTGAAGAATGCTAATACTTGCCCACTTGTAGGAAAAAGATCAACCACAAACGGTAC  
CACCCCATTTATATATGAAGTATTGAGACCCCCCAGGAGAGACGGATGGACAGACAGACAGCCAGGTTCTCCAG  
TGGTATCTGCCTCCATTTTCTGAGATCAAAAAGACTGTTTCGAAACCAACATCTGATATGTAAGTGTCTTTT  
GTTTCAACCCCTTCTTTTGTATCTCCAGTTTGTATGCTATGGCGCTGGACCCAGGGCCCTCCAGGCCATCTC  
TGTTCTCTGGGGTGGTCCAGTTCTAGAGTGGGAGAAAGGAGTCAGGCGCATTGGGAATCGTGGTTCCAGTCTG  
GTTGCAGAATCTGCACATTTGCCAAGAAATTTCCCTGTTTGGAAAGTTTGGCCAGCTTTCCCGGGCACACCAC  
CTTTTGTCCCAAGTGTCTGCCGGTCGACCAATCTGCCTGCCACACATTGACCAAGCCAGACCCGGTTCACCCAGC  
TCGAGGATCCCAGGTTGAAGAGTGGCCCCCTTGAGGCCCTGGAAAGACCAATCACTGGACTTCTTCCCTTGAGAGT  
CAGAGGTCACCCGTGATTCTGCCTGCACCTTATCATTGATCTGCAGTGATTTCTGCAATCAAGAGAACTCTGC  
AGGGCACTCCCTGTTTCCTAAGAACGAAAAGTGAATAAAGGCCATTGTTACCTACTTTTACAGAGCCACA  
AGATGTAGCACTATTAGTGTCCCCCTCAGAGGCTTAATGTTGCCTGTGGAGCAGTGGCCATCCCAGCCGTTTCT  
GCCCACCAGTTGTTCTCAGGAACCTTACCCATGCTCCAGCGTCCTTACCTGGCACAGGACATGCAAGATAAATA  
GGGCAGGCACGTGTTTGGGTGTCCTCTCTTTCTGATAAAATCCATCCCGTGTTCGCCACACGCCCTCCAGTCCT  
CAGTTCCTCACTGCCTAACGCTGCCCCCGTGTAGATACTGAGAGGTGGTGGCAGTAATTGTGGCCTTATCAGCCG  
CTCAGTTCCAGGCTTTTGGCCAGGTCAGTGTGCCCCATGTTTCGGAGAACCTGGCCACCTGTCTTGGCTTTTCTC  
ATCCTTCCCAACCCAGTGGCGTTTATTTGAGAAGCTTCTGCGCACTGGGCTTGATGCTTCGGGCTTCTGACTG  
CTCCATAGGTTTTGACTGGTGAAACAGGGGCCAGATGACAACTCTCCTTCGCTCCACAGGTACGCGGGAGCCT  
CAGGTTCTCTCAGGGGCAGCAAAGTGGCCCAAGCTGCCCTGACAGCACAGGGCCTGGGGGTGGCTAACGAGAGA  
GGCCTTACAGTGCCGGCATGCCTCCTCTTCCACTGTCTCCTTCTCAGAGGGCCTCACGCCAAACAAACGGCCT  
TTTCGTGTGAAACATCTTCAGGGCGGAAAGGGGCCACTTCTGGCTTTGTTAGCAATAACTGACCTTCAGTTTAC  
CCTTCTGAAGGAGCAGGGACTCAGCACAGAATCACTTTAGACGGGGCTGAAGGAGTGTCCTCCTCTATGTGAA  
AAGAAAATTGTTTTATTCTTCTGACTTTTAACTGTTTGGCTCACTTCCAGTTAGTTTGAATGAAAAATAAT  
AATTTTCTACTTGGAGTTGAAGAGGGCAGAATCCGCAGCTCTCATCATTGTGATGTGTAGCATGTCTGCCCTCTG  
ACTGGACATCATTGCCATTAACTTTCTTCTGGGCATCACGGCAGTGTCACGATGCCAGACTTGGAGCAAGGCAA  
CCTTGGAGTCAGTCCACTCATAAAATATGGTAACACCCATTTTAAATTTAAGTTTGTCTTAAAGACAACCTC  
AGTGGTTAATTATAAAAGTTGTGTTACTTCGTCTAAATTAATTTGATAGAAAGATTTAAAAATGTGTTTGTGTT  
CTACTATTCAGAAACTGCGAACTAGGGAAAGTTGGTATGAAAAATGTCTTCTTTTCAATGTACATAGTT  
CAACTCTTTCTTTGTACATTTAACTATATCCATGGATATCAGTCTGCTTTGGACTCCTCTGCTAGTGTTACAG  
ATGGAAATAAAACCATTAATTTGAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1387**

MSTRKRRGGAINSRQAQKRTREATSTPEISLEAEPIELVETAGDEIVDLTCEPLEPVVDLTHNDSVVIVDERRR  
PRRNARRLPQDHADSCVVSSDDEELSRDRDVYVTTHTPRNARDEGATGLRPSGTVSCPICMDGYSEIVQNGRLIV  
STECGHVFCSQCLRDSLKNANTCPTCRKKINHKRYHPIYI

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**FIGURE 1388A**

CGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCCGAGGGCGCACCACCGGCCCGTCTCGC  
CCGCCGCGCCGGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAGATTGTACAATGAATGGTGATTCT  
CGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCTCACAAGGAGAGGTACTTCGACCGAGTAGATGAG  
AACAACCCAGAGTACTTGAGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAG  
AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG  
AAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAAATGTC  
TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTT  
AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTA  
GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAAACCAGAGTGAACCTCCGAGCAGGAACACTTC  
CTCATTGTCCCTTTTGGGCTTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT  
ATAGTAGATCGTGGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACACTCTGCAATTTATGCTGCA  
CGCCCGGACGTGAAGTGCGTCTGTCACATTACACCCCGAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC  
TTGCCAATCTCCCCGAGGCGCTTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA  
GAGGAAAAAGTTTTGATTGAGAAAAATCTGGGGCTTAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG  
TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCGTGTGAGATCCAGGTTTGA  
ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCGTTCC  
CCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC  
ATGCGGATGCTCGATAATCTGGGCTACAGAACTGGCTACCTTATCGATACCCTGCTCTGAGAGAGAAGTCTAAA  
AAATACAGCGATGTGGAGGTTCTTGCTAGTGTACAGGTTACTCCTTTGCTAGTGACGGTGATTCTGGGCACTTGC  
TCCCCACTCAGACACAGTTTTTCAAGCAGCAGCGGGAGAAGACAAGATGGCTGAACCTCTGGCCGGGGCGACGAA  
GCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAAGTGAAGACTAAGTGGACTAAAGAGGATGGACATAGAAGT  
TCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCACAAAGAGGTCCAGGAGATGAGGAACAAG  
ATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCCAGGTTTTGTGTGGTGTAGTGATGGAC  
AGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCCACGTCATT  
GTGAGCACCACGGGCCCCAACCCCTTACCACACTCACAGACCGTGAGCTGGAGGAGTACCGCAGGGAGGTGGAG  
AGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAGAGTCTCCAGACCAGCCT  
GCGGTCCCCACCCGCTCCACAGCACTCCCATCAAGCTGGAGGAAGGAGACGGATGCGCTAGAGAGTACCTGTTA  
CCCTAACCTTGTGCCGGAGCCGACTACTGGAGATGACAGTGATGTGCCACCTTTAAGCCAACCTCTCCCGATCT  
GTCCCTGATGAACCTTCAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCAAG  
CCCCACTGAGGCCCTACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCCCGGTGGCTGAAGAGGCTGCCCC  
CTCAGCTGTGAGGAGGGGGCCGCCGCGGACCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTCCAAAAGAA  
GAAGAAGTTCCGTACCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCCTGAAAGCCCTGCGCTAACAC  
TGTCTGTCCGGAGCGACCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATG  
CAAAAAGCCAAGCCCTCCGCTAGAGGTCCCTCAGTGACCAGCCCCGTGTAGCCCCGGCTGACCCAGTGTG  
TGCTCAGCAGCCCCACCCACCTGCCCCCTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCA  
CAGGGGGGAGGCACTAAGTCATGGTCTGTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCACGTACCC  
TCCTGAGCCTCACCTTTCTGCGTCCCTCCTTGTGTGAATCACCAATTCTGTCTCTGCTTGGCTTCCCTCC  
ACCCTAAAGTCTCAGGTGACGGACTCAGACTCCTGGCTTCATGTGGCATTCTCTCTGCTCAGTGATCTCACTTAA  
ATCTATATACAAAGCCTTGGTCCCGTGAAAACACTCGTGTGCCACCAAGCGGCCTTGAAGAGGCAGGTCTGGGCC  
AGATGTGGGCAGGAAACCCAGCGGCAGATGGGCCTGTGTGCACCCAACGTGATGCTATGCATGTCTGACCGAC  
GATCCCTCGACCAGAATCAGATTCAGGAGCTCAGTTTTCTTTTCACTTGGGTCTCTGGATTCTGTCTATAGGGAA  
GGTATATCAGGAGGGGAAGAGGCCTTCTAGAATTTCTTTTGGAGCAGGTTTACAATTTAGCTTACATTTTTTCGAC  
TGTGAACGTGAATAGGCTGCTTTTTGCTTTCTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGG  
GAGGCTTCAGGGGACTGTTCTCACTTAACCTAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTGAGGT  
GGAGGGTAGCCCTGGGGCCCCCTGACATCACCCTGATGAGGCTGAACCGTGTGCTCCTCGGCAGATGCTG  
TTGTTGTTACTTCCCTCCAAGAGGCTGGAAGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGTGACCCATTTC  
AGGAGGTGCCGTACCAGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCCAACAGGCCCTTGGTAGAGCTGGTG  
CCAGATGTGGGCTCAGATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGA

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**FIGURE 1388B**

ACCAGGCTGCTGCATGGCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGT  
GCTGCCTCTCTTCTGTGTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCC  
CTCCTTTACCCACATATGCAATGACTTTTAATTTTCACTTTGTAGTTTAATCCTTTGTATTACAACATGAAAT  
ATAGTTGCATATATGGACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTCTCCAGTGTAACATGTTTTACTC  
ACAAATAAAATTCTTTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1389**

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI  
QEQFKKGKNPTGLLALQQIADFMTTNVNPVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA  
AFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS  
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGPKSKVLILR  
NHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGETGSPPKWQIGEQ  
EFEALMRMLDNLGYRTGYPYRYPALREKSKKYSDEVPASVTGYSFASDGDSGTCSPLRHSFQKQREKTRWLNS  
GRGDEASEEGQNGSSPKSKTKWTKEDGHRTSISAVPNLFVPLNTPKEVQEMRNKIREQNLDIKTAGPQSQVLC  
GVVMDRSLVQGELVTASKAIIKEYQPHVIVSTTGPNPFTTLTDRELEEYRREVERKQKGCEENLDEAREQKEKS  
PPDQPAVPHPPPSTPIKLEEGDGCAREYLLP

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FIGURE 1390A

CGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCGGAGGGCGCACCACCGGCCCTCTCGC  
CCGCGCGCGCCGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAGATTGTACAATGAATGGTGATTCT  
CGTGCTGCGGTGGTGACCTCACCACCCCCGACCACAGCCCCCTCACAAGGAGAGGTACTTCGACCGAGTAGATGAG  
AACAACCCAGAGTACTTGAGGGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAG  
AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG  
AAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAAATGTC  
TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGAATCCTGTGAACGATCTT  
AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTA  
GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAACCAGAGTGAATCCGAGCAGGAACACTTC  
CTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT  
ATAGTAGATCGTGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTACCTTACACTCTGCAATTTATGCTGCA  
CGCCCGGACGTGAAGTGCCTGCTGCACATTACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC  
TTGCCAATCTCCCCGAGGCGCTTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA  
GAGGAAAAAGTTTGAATCAGAAAAATCTGGGGCTTAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG  
TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCGTGTGAGATCCAGGTTGCA  
ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCGTCC  
CCAGGGTCTCCGTTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC  
ATGCGGATGCTCGATAATCTGGGCTACAGAACTGGCTACCTTATCGATACCTGCTCTGAGAGAGAAGTCTAAA  
AAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCCTTTGCTAGTGACGGTGATTCTGGGCGCACTGC  
TCCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGAGAAGACAAGATGGCTGAATCTGGCCGGGCGCAGCAA  
GCTTCCGAGGAAGGGCAGAAATGGAAGCAGTCCCAAGTGAAGACTAAGGTGTGGACGAACATTACACAGCATCAC  
GTGAAACCTTGTGTCAGTCTCTCTGCTCCGCTGTCTGCGTGCCAGCTGTATTACCAACTGCTTGTGGACTAAA  
GAGGATGGACATAGAATCTCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCCAAAAGAGGTC  
CAGGAGATGAGGAACAAGATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCCAGGTTTTG  
TGTGGTGTAGTGTAGGACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAG  
TACCGCAGGGAGGTGGAGAGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAG  
AGTCTCCAGACCAGCCTGCGGTCCCCACCCGCTCCAGCAGTCCCATCAAGCTGGAGGAAGACCTTGTGCCG  
GAGCCGACTACTGGAGATGACAGTGTGCTGCCACCTTAAGCCAACTCTCCCCGATCTGTCCCTGATGAACCT  
TCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCATAGACCCCAAGCCCCACTGAGGCCCT  
ACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCGCTGGCTGAAGAGGCTGCCCCCTCAGTGTGCGAGGAG  
GGGGCCGCGCGGACCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTCCAAAAAGAAGAAGATTCCGTACC  
CCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTCTCCTGAAGCCCTGCGCTAACACTGTCTGTCCGGAGCG  
ACCCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATGCAAAAAAGCCAAGCCC  
TCCGCTAGAGGTCCCTCAGTGACCAGCCCCGTGTAGCCCCGGGCTGACCCAGTGTGTCTCAGCAGCCCCAC  
CCCACCTGCCCCCTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCACAGGGGGGAGGCACTA  
AGTCATGGTCTTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCACGTACCCCTCCTGAGCCTCACCTT  
TCCTGCCGTCCCTCCTGTTGTGAAATCACCAATTCTGTCTGTGCTTGGCTTCCCTCCACCTAAAGTCTCAGG  
TGACGGACTCAGACTCCTGGCTTCATGTGGCATTCTCTGTGCTCAGTGAATCTCACTTAAATCTATATACAAAGCC  
TTGGTCCCCTGAAAAACTCGTGTGCCACCAGCGGCTTGAAGAGGCAGGTCTGGGCCAGATGCTGGGCAGGAA  
ACCCAGCGGCAGATGGGCCTGTGTGCACCAACGTGATGCTATGCATGTCTGACCGACGATCCCTCGACCAGAA  
TCAGATTACAGGATCAGTTTCTTTTCACTTGGGTCTCTGGATTCCGTGTCATAGGGAAGGTATATCAGGAGGGG  
AAGAGGCCCTTTCTAGAAATTTCTTTTGTAGCAGGTTTACAATTTAGCTTACATTTTTCGACTGTGAACGTGAATAGG  
CTGCTTTTGTCTTTCTTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGGGAGGCTTCAGGGGACT  
GTTCTACCTTAACCTCAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTGAGGTGGAGGGTAGCCCTGGG  
GCCCTCGACATCACCGTCATTGATGGAGCCTGAACCGTGTGCTCCTCGGCAGATGCTGTTGTTGTACTTCCCT  
CCAAGAGGCTGGAAGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGTGACCCATTTTCAGGAGGTGCCGCTACC  
AGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCCAACAGGCCCTTGGTAGAGCTGGTGCCAGATGTGGGCTCAG

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**FIGURE 1390B**

ATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGAACCAGGCTGCTGCATG  
GCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGTGCTGCCTCTCTTCTGT  
GTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCCCTCCTTTACCCACAT  
ATGCAATGACTTTTAATTTTCACTTTTGTAGTTTAATCCTTTGTATTACAACATGAAATATAGTTGCATATATGG  
ACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTTCTCCAGTGTAACATGTTTTACTCACAATAAAATTCTTT  
CAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 1391**

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLREERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI  
QEQQFKKGKNPTGLLALQQIADFMTTNVPNVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA  
AFYRLADLFGWSQLIYNHITRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS  
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGPKSKVLILR  
NHGLVSVGESVEEAFYYIHNLVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGTGSPPKWQIGEQ  
EFEALMRMLDNLGYRTGYPRYPALREKSKKYSDEVVPASVTGYSFASDGDGSGTCSPLRHSFQKQOREKTRWLNS  
GRGDEASEEGQNGSSPKSKTKVWTNITHDHVKPLLQSLSSGVCVPSCITNCLWTKEDGHRTSTSAVPNLFPVPLNT  
NPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVMDRSLVQGELVTASKAIEKEYQPHVIVSTTGPNPFTTLTD  
RELEEYRREVERKQKGCEENLDEAREQKEKSPPDQPAVPHPPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDL  
SPDEPSEALGFPMLEKEEEEHRPPSPTEAPTEASPEPAPDPAPVAEEAAPSAVEEGAAADPGSDGSPGKSPSKKK  
KKFRTPSFLKKSKKKSDS

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**FIGURE 1392**

GCACGTGTCCTTAGGGTAGCGCGCGCCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGGCCAT  
GGCGAAGGCGAAGAAGGTCGGGGCGCGAAGGAAGGCCTCCGGGGCGCCGGGAGCGCGAGGGGGCCCGCGAA  
GGCCAACTCCAATCCGTTTCGAGGTGAAAGTTAACAGGCAGAAGTTCCAGATCCTGGGCCGGAAGACGCGCCACGA  
CGTGGGACTGCCCCGGGTGTCTCGCGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGA  
AAGGGATAAATCCAATGTATTTCAGAGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGAT  
GATGAAGAGGTTTGTCTGTGAACAGCAGCGACATCATGAGAAAAAAGCATCTACAATCTAAATGAAGATGAAGA  
ATTGACTCATTATGGCCAGTCTTTGGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGA  
GGATCGAGGAACGTTGTCTGTCTGAGCTGACTGCTGCCCACTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGAC  
TCAACAGGAAGGCGAGGAGCGGGAGAAACCGAAGTCCCGGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAA  
ACAAGAGAAGAGGAGAGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAA  
AGAAATTCAGACTCTCCTGTCCCAAAAACCTCCCAAGTCAGAGAACAGAGACAAAAGGAAAAACCCAAGCCCGA  
TGCATATGACATGATGGTTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGC  
AGAATTGGCAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGA  
TGAGGATGAAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGA  
TGACAGGCGTTTGTCTTCTACAAAGATGGAAAGATGAATGTGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGA  
AGCCAGTGACCTGAGAGCAACGAGGAAGAAGGTGACAGTTGAGGCGGGGAGGACACAGAGGAGAGCGACAGCCC  
AGATAGCCACTTGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCA  
GACTCCTGGGAAAGGGTTGATAAGCGCAAGGAAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTT  
CGCAGCCCCCTGAATCCTATGAGGAAGTGAAGTCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGT  
GGAGAGAATTCAGAAGTGCAACCACCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTT  
TCTTTTGAATACGTTGGCGATTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCA  
CTTATATCATCTTTGCCAGATGTTTCTGAATCTGCAAGTGACGCTATCAAAATTGTTCTCCGAGATGCGATGCA  
TGAGATGGAAGAAATGATTGAGACCAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTATTGAAAAT  
CACTGGGCTGCTATTTCCAACTTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCTGCCCTCAGTCAGCT  
GCTCACCAAGTGCCCATCCTGTCCCTCCAGGACGTGGTGAAGGGCCTGTTGCTGTGCTGCCCTGTTCTGGAGTA  
TGTTGGCTTTGTCCCAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAA  
CAAAGCAAGCCAAGGTTCCACTCTGGTGCACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAACCTGCTCGTGGTGTG  
TGCTAGAGAGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAAC  
TTCGACAGAGGCCAATCACATCCGACTGTCTGCTGGCTGTGGGCTGCTGAGCGCTGCGTGCTCAT  
GTACGGGTCCCTGCCATCCTTCCACGCCATCATGGGGCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTG  
CAGCCACCCGCGAGGAGCTCCAGGAGCTGTGTCAGAGCACACTGACCGAAATGGAAGCCAGAAGCAGCTCTGCCG  
GCCGCTGACCTGTGAGAAGAGCAAGCCTGTCCCACTGAAGCTTTTACACCCCGGCTGGTCAAAGTCTCGAGTT  
TGGAAAGAAAACAAGGCAGTAGTAAGGAGGAACAGGAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAA  
AGGGGCCGTTTCGAGAAATCCGCAAGGACAATCAGTTCTTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGA  
TGCGGAAAGAAAGCGGAAAGTAAAGCAGCTTTTAAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAA  
GAGGAAAAAGTTCAAAAAATTAATTACATTTTATAAATAAGGCAAGGAAGTGGACATTACCTCACATCTGCAATT  
CCAACCTCTGGGAGGCCAAGGCAGGAAGATTGCTTCAGCCAGGAGTTTCAGAGACCAGCCTGGGCAACACAGGAA  
GACCCCGTCTCTACCAAAAAACATAAAAAATTAGCCAAGTGTGGTGGCACGCACCTGTAGTCCCAACTACTCGGG  
AGGCTGAAGCAGGAGGACTGCTTGAGCTGAGTCCAAGGTTACAGTGAGCCGTGATTGAGCCACTGCACTCCAGCC  
TCGGCCACAGTGCAAGACTGTGTGCTTAAAAAAAATTTTTTTTTTGGAGACGGAGTTTTGCTCTGTGTGCCCA  
GGCTGGAGTGCAATGGCACAACTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGG  
GATTACAGACATGTGCCACCACGCCCAGCTAATTTTGTATTTTAGTAGAGACGGGTTTTCTCCATGTTGGTCAG  
GCTGGTCTCGAATTCCTGACCTCAGGTAATCCACCTGCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACC  
AGCCAAAAAGTAATTTTTTTTAGAGTAATAATGCTATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACC  
CGCTGCCCTGCGGTTTTGTTTTCTGTTAAACGTCACCTGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGAT  
CGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCACTGCGTCTGGACAAGCCTCATGGGGACTGGGGATTCT  
GGCCAGTGAATTTCTGTCAACCACGGAGCTTTCCTTCATGTGTAGAATTTACTGTTGTTATGCAATTATATT  
TTCAATTATAAATG

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**FIGURE 1393**

MAKAKKVGARRKASGAPAGARGGPAKANSNPFEVKVNROKFQILGRKTRHDVGLPGVSRARALRKRTQTLLKEYK  
ERDKSNVFRDKRFGGEYNSNMSPEEKMMKRFALEQQRHHEKKSIIYNLNEDEELTHYGQSLADIEKHNDIVSDSDA  
EDRGTLAELTAAHFGGGGGLLHKKTQEGEEREKPKSRKELIEELIAKSKQEKREERQAQREDALELTEKLDQDW  
KEIQTLLSHKTPKSENROKKEKPKPDAYDMMVRELGFEMKAQPSNRMKTEAELAKEEQEHLRKLAEERLRMLGK  
DEDENVKKPKHMSADDLNDGFVLDKDDRLLSYKDGKMNVEEDVQEEQSKEASDPESNEEGDSSGGEDTEESDS  
PDSHLDLESNVESEENEKPAKEQRQTPGKGLISGKERAGKATRDLPYTFAAPESYEELRSLLLGRSMEEQLLV  
VERIQKCNHPSLAEGNKAKLEKLFGLLEYVGDLATDDPPDLTVIDKLVVHLYHLCQMFPEASDAIKFVLRDAM  
HEMEEMIETKGRAALPGLDVLIIYKITGLLFPTSDFWHPVTPALVCLSQLLTCPILSLQDVVKGGLFVCCLFLE  
YVALSQRFIPELINFLLGILYIATPNKASQGSTLVHPFRALGKNSSELLVVSAREDVATWQSSLSLRWASRLRAP  
TSTEANHIRLSCLAVGLALLKRCVLMYGSLSFHAIMGPLQALLTDHLADC SHPQELQELCQSTLTemesQKQLC  
RPLTCEKSKPVPLKLFTPRLVKVLEFGRKQGSKEEQERKRLIHKHKREFKGAVREIRKDNQFLARMQLSEIMER  
DAERKRKVKQLFNSLATQEGEWKALKRKKFKK

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**FIGURE 1394A**

CCCTCCGGCTCGGCGAAGCAGGGAAGGGGAGAGAAGCAGGAGTCGGGAGACTGCACAGGCCAGAAAGTCTGCGGA  
GCGGGCCGCGCCCTGGCCCGCCGGGCTCCAAGTCCCGCGTCGCCGCCCTGGCGGGGACGGTGCAGCAGGCGGC  
GGGATGCGGGCGGGGCGGCAGCCTGAGCGCCCCGGATGGCCCGCGGGGGCGGCCTGCAAGAGCGACGCGCGGCT  
GCTGCTGGGGCGGGACGCGCTGCGGCCGGCGCCCGCCCTGCTGGCCCCCGCGTGCTGCTGGGCGCCGCGCTCGG  
CCTCGGCCCTCGGCCTTTGGCTTGCTGCGCGCGGGCCGCCAGCGCACGCGACACCAGAAAGACGACACTCAAAA  
TCTGCTCAAGAATTTGGAGTCTAATGCGCAGACCCCTCGGAAACTGGCTCCCCATCAAGGAGGAGGAAGAGAGA  
AGTGCAGATGTCGAAGGACAAGGAAGCTGTTGATGAATGTGAGCCGCTTCCAACAGCAATATCACAGCATTTCG  
CCTGAAGGCCAAAAGTCATCTACCCCATCAATCAGAAGTTCGGGCCCTCTGGCCGATGGCTCCTCCAACCCGTCTCT  
GCATGAAAACCTTAAAGCAGGCTGTTTTGCCACACCAGCCGGTAGAGGCCTCTCCTTCCAGCAGTCTGGGGAGCCT  
GAGCCAGGGTGAGAAGGACGACTGCAGCTCCTCATCCAGCGTCCACTCGGCCACCAGCGATGACAGGTTTCTCAG  
CCGCACCTTCTCCGGGTGAACGCTTCCCTGAAGTGCTGGCCTGCGAGAGTGTAGACGTTGACCTGTGTATCTA  
CAGCCTTCACTTAAAAGACCTGCTGCATTTGGACACGGCACTGAGGCAGGAAAAGCATATGATGTTTTATTTCAGAT  
TTTTAAATGTGCCTCCTTGACCTTCTTCTTAAAGAAAGTCAAGTATGATGAATTATACCAGAAGATCCTTTCAA  
ACAAGAAAAGATTTGGAGGAAGTAAAGGGGACTTCAGGTCAAACTGTCAAACACAGAAATGTCGGGGGCTGG  
TGACTCTGAGTACATCACCTGGCTGATGTGGAAAAGAAGGAGAGAGAATACTCTGAACAGCTAATCGATAATAT  
GGAAGCTTTCTGGAAACAGATGGCAAATATCCAGCACTTTCTTGTGGACCAGTTTAAAGTGTTCAGCTCCAAAGC  
CCGACAGCTGATGATGACTCTGACGGAAGAATGATTGCAGCCGAAGGGCTATTGTGCGATTCTCAGGAGCTGCA  
GGCTCTGGACGCCCTGGAGAGGACGATGGGGCGGGCGCACATGGCAAAAGTGATTGAGTTTCTGAAGCTGCAAGT  
CCAGGAGGAGACCAGGTGCCGGCTGGCTGCCATCTCCACGGCTGGAGCTGCTGGCTGGTGAGGGGAAGCTGTC  
CGGGCGGCAGAAGGAGGAGCTGCTCACGCAGCAGCACAAGGCCCTTCTGGCAGGAGGCAGAGCGCTTACGCCGGGA  
GTTTGTCCAGCGAGGCAAAGACCTGGTCACGGCGTCTCTGGCTCACCAGGTGGAGGGAACGGCAAACTCACGCT  
GGCCCAAGAGGAGGAACAGAGAAGCTTCTGGCTGAGGCCAGCCGACTGCTGACCCGAAAAGTTTCTCGAGGC  
TTTTCATGAGGTCTTGAGAGGCAGAGGCTGATGCAAGTGTGACCTGGAGGAAGAGGAGAATGTGAGAGCCACCGA  
GGCTGTGGTTGCACTCTGCCAGGAGCTGTACTTCAGCACCCTGGACACTTTCCAGAAGTTCGTGGATGCCCTGTT  
CCTTCAGACGCTCCCTGGCATGACTGGCCTCCCCCGGAAGAGTGTGACTACTTGAGGCAGGAAGTCCAGGAGAA  
CGCTGCCCTGGCAGCTGGGGAAGTCAAATCGCTTCCGAGGCAGCAGTGGAACTCTTCCAGGAGCTCCTAGAGCA  
AGACCAGCAGGTGTGGATGGAGGAGTGTGCGCTGTCCAGCGTGTGTCAGACACACCTGCGGGAGGACCACGAGGG  
CACCATCCGCGGCGTCTTGGGCCGACTGGGCGGCCTCACTGAAGAGTCCACGCGGTGTGCTCTGCAGGGGCATGA  
CCTGCTGTTGCGCTCAGCCCTCCGGAGGCTGGCACTCCGCGGCAACGCCCTGGCCACCCTGACGCAGATGCGGCT  
ATCGGGGAAGAAGCACCTCTGCAGGAGCTGCGGGAACAGCGTGCAGTGGAGCAGGGGTCTCTCCAGTGCCTGGA  
CGAGCATCAGTGGCAGCTGCTCAGGGCCCTGAGGCGCGTGTGCTGGAGGAGGCCAGCCGGCTAGAGGAGGAAGC  
ACAGCAGACACGGCTGCAGTCCAGCAGCGGCTCCTGGCCGAGGCCAGGAGGTGGGGCAGCTTCTGCAGCAGCA  
CATGGAGTGCGCCATTGGGCAGGCGCTGCTGGTGCATGCACGGAATGCAGCCACCAAGAGCCGGCCAAGGACAG  
GGATGACTTCAAGAGGACACTGATGGAGGCGGCAGTGGAGAGCGTCTACGTGACCAGCGCTGGTGTACGCCGCT  
GGTGCAAGGCTATTACAGCAAATCGGAAGGATCATGGAGGACCAGAGGAGAGAAAAGTGCAGCACCTGAAGAC  
CCTGCAGGGTGAGAGGATGGAAAATTACAACTGCGGAAAAGCAAGAACTCAGCAACCCTTCGTGCGGCAGCAG  
GACGGCAGGTGGCGCTCATGAGACCTCCAGGCGGTCCACCAGAGGATGCTGTCCAGCAGAAGAGGTTCTTGGC  
CCAGTTCCTCAGTGCACCAGCAGATGCGTCTGCACGCCCAGCAGCAGCAGGAGGAGTGCATGGACCTTCTGGAAGC  
CCAGCTGGAGACCCAGCTACAGGAAGCTGAACAGAACTTCACTCTCCGAGCTGGCAGCCTTGGCCCCGAGTGCCCT  
TGCTGAAAGCAAAGTGTGCTGCTAAGCGTGGGCTGCTAGAGAAGCCCTAAGGACTAAAAGGAAGAAGCCCT  
GCCCCAGGAAAGAGGGGACCTGGGGGTGCCCAACAATGAGGACCTTGCCTCCGGGGACCAGACCTCAGGCTCACT  
CAGCAGCAAAAGGCTGAGTCAGCAAGAAAGTGAAGCTGGGGACAGTGGGAAGTCAAAGAAGATGCTAAAGAGAAG  
AAGCAACTTGTAGTTTAAAGACCAGTCCGTGGGACAAGACCTGAAGCCCTGGGTCTGGGTGTGAATTCCACCTTCC  
CTCCTGCAGTGTGAGAGGCAGCGAGGACGAGAGGACAGCGGCATCTCTAGGCTCTTCTGAGAGGGACAGAGAA  
AGAATAGAAATGTGCCCTAAAAGCATAAATGAGTATCACCTGAGAAAATTAGGCATTCCCGTCTTGAAAACACGT  
CTCTGTGAGTTTGCATTTCAATTTGGCTTGAGGCCCTGGCTCGATGCCTCATGGATCTTTCTCCCAAGGAGGGAC  
GTCTTGAGGGGTCCGAGCCTCAGGCCAAGGACCCCTGATGCAGACTCTGGAATCCCTGGCCCAAGGCCCTGTCTG  
GGCCATCTGGGGCTGAGGACACACAGATACATAATGACACCTGCAGAAATGTATTCTCTGAGGACACTTAGAAT

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**FIGURE 1394B**

ATGAGGAAGAGGGTGTGGCCCAACCCCTCACTTCACCTGGGGAGGGGCTTCTTCCGGACAGTAGACACCCTGCCCC  
TGCAGAGAGATGTCATGGGGGCACCTGCTCTCCCTGATAGATGCTGAGAGCATCCAGAACTTCCAGACCAGCCC  
TCTCACCACACCCAGAAGAGGCCCTTTCCCATCTGGAGAGAAGCTTCCAGACCAGCCCTTCACACACCACAGCCAG  
GAGGGGCCCTTTCCCACTGGAGAGAACTTCCAGACCAGCCCTCATACCACAGCCAAGAGGGGCCCTTTCTCACC  
TGGAGAGAAATTTCCAGACCATCCCTCTCACCACAGCCAGGAGAGGCCTTTCCACCGGTAGAGAACTTCCAG  
ACCAGCCCCCTCACACCACAGCCAAGAGAAGCCTTTCCAGCCTGGAGAGAACTTCCAGACCAGCCCTCTCACTAC  
AGCCAGGAGAGGCCTTTCCCGCCTGGAACTTCCGGACAAGCCTCTCACACACCACAGCCAGGAGAGGCCTTTCC  
CACCTGGACAGAACTTCCAGACCAGCCCTCTCACCACAGCCAGGAGAGGCCTTTACCACCTGGAGAGAAGCTT  
CCAGACCAGCCCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGACCAGCCCTCAT  
ACCACAGCCAAGAGGGGCCCTTTCTCACTGGAGAGAACTTCCAGACCAGCCCTCACACCACCGCCAGGAGAGG  
CCTTTCCACCGGGAGAGAACTTCCAGACCAGCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCGGGAGA  
GAACTTCCAGACCAGCCCTCTCACTACAGCCAGAAGAGGCCTTTCCACCGGGAGAGGAATTTCCAGACCAGCC  
CCTCACACCACAGCCAGGAGAGGCCTTTCCCGCCTGGAGAGAAGCTTCAGGCCAGCTCTCACACCACAGCCAGG  
AGAGACCTTTTCTGCCTGGAGAGAACTTTAGACCAGCCCCACACACCACAGCCAGGAGAGGCCTTCTGCCT  
GGAGAGAAGCTTCCAGACCAGCCCTTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGA  
CCAGCCCCCTCTCACCACAGCCAGGAGAGGCCTTTCCACCTGGAGGGAAAATTGCTCCTTGATGGAGGTTAGGG  
ACTGTACCCCTCAGCACTGTGAACATAACGGGCGAGATCATTCTTCAGGGGAAGGAGCTGCCAGAGCATCACAG  
GATGTTCCAGTGTCCCTGGTCTCTGCCACACAGATGCCAGCACTCCACCATTCGTGGCAACCAAGGATGTCTCC  
AGACACTGCCCCGTGTCCATGGGGTTATCACCACTGTGCTGAGTCAAAGGCTGCCTTGCCCTGGTCTAATCCAG  
GACATAGCCGTGGATACGTCCAAAAATCCCCAGAACCCTAGTGAGCCCTCTGGCTCTGGGAGCCCCCTATCTCAGGA  
ATTTTCAGGGTCAATTTGTGACTTTTCATTTCTTAAACCTGAAATAGACTCTCTTAGAAACAAGTACTCCTTCC  
CAGTGGCCAAAACCTTAATCATCAGAGCGCTTCCTTCAGTTCCTCACCACATCAGCCAGTGGGCTCTCCAAAGTTAA  
CCAACAGCTCCCTCTTGTGGTTCACTAAAAAATTTGGTTATTCCATGGAGTTGTGCAAAGCTATGGCTTCCTTGG  
TGCAATATTCTTAAACCTGCTTTGTCATAGAAATCACTTTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCT  
CATGGCAATCTCCATCTCCCGGGTTCAAGCGATTTTCTGCCTCAGCCTCCCCAGTAGCTGGGACTACAGACGTG  
TGCCACCACGCCTGGCTAAATCTTTTTTGTATTTTATTTTAGTAGACGGGGTTTACCATACTGGCCAGGCTG  
CTCTCGAATCCTGACCTCATCGTCCACCTGCCTCGGCCTCCCCAAGTGCTGAGATTAGGCGTTAGCCACCGCG  
CCCGGCCAGAAATCACTTTTATATTGTCATGCGCCCTCTGCGACAGATCCGATGGCTCTCTCCCGGGGAAGCCT  
GATTTTGTGACGTGTGTATAGTAAATGCAGGCCCTCTGCGACGACCATTAATTGGTTCGGTTACCCTGAGCCCAGAG  
CTCTGAAAGCATCTGTGGAATGATCAGGGGACCCTTCTCCTCTGAGAAGGCTCCCGGCTGCCTCCCGCCACCGGA  
GCTTGTAGCCTGAATGCCTGGCTGTGCGATGGAGCAATTTTGCTTCTGGGGTGCTTCTCTTAGCCAAAGGGAACGT  
GTCAATTTGCTCGACCTGGCCACCCTTGCCGCCCAGCTTTGTGTGCTGGGCACAGTCTGGGGCACAGGCCTCCAT  
GATGAAGACGCGTGGGCTGTGCGTGCTTTCATCCGTCAAACTGGCACCTGTACCTGCCAGCAGGAGCATGATG  
GGGACTTCCATGCTGGAATTGCTCCCTGATTAAATGAGATATGGCTATTGGAAGACACTGCATTTTAGCCAGT  
GTACCTGGGCACAGACTCGGGGCTGCCCTGAAGCTGATGAAGGCTTGAAGGACGGAAGGGCTGAGCCACATGAAG  
GCAGCACTCAGGGCCAGGGGAGAGAGAAGAGGATCAGCAGTGCAGCCCCAGGATGCCTCGCAGACGTGCCTTCTG  
CCATGATTGTGAAGTTCTAGCCACGTGGAACCTCTCTCGGAAGAACTGGTTGTTAAAGAGCACCTCTGCCTTCTTC  
CTCTGTTGCCATGTGATCTCTGCAACGCTAGCTCTCCTTCGCCTTCTGCCATGCTGGAAGTAGCCTGAGGCCCT  
CACCAGAAGCAGACGCTGGCACCCTGCTGCTTGTACAGCCTGCAGAGCCGTGAGCCAAGTAAACCTCTTTAATTA  
CCCAGCCTCAGGTGCTCCGGGAACGCCTTCCGCGGAATGAAGCGGCCCATGCCCTTGTTGACGTTGATGTTCCG  
TCTTCAAAGACGATCTTCCCTGGCTGATGACCACTAGTGGGGAGCCGTGGCACTCCATACCCCTGAAGATGTTG  
TACTCCACCGCCTGCACCAACAGCCTCAGCGTTACTTCCAGGATTTGCTCTGCCCCAAACGAGCTGTTTATAAC  
AGCGATTTTGCCTAACATATATATATAAGCGTGTTTCAATGTTTTTTTTTCTCTTAAAAATACCTTTTATTGAC  
TGTAATATTCCACTGTATGGTCCACAGTGTATATAACCAACAACTCACCGTTGCGCATGTAGGCTGCCGGTGGCT  
TTCTATAATCAAATCAATATTGTTCTGGGSCATCACAAGAGGAAGGGGGTCCCCXGGGGTTATGCAATGTGGC  
TGCTTTGACTGTACTGGACATAAAAAATAAGTAAATGTTCTTCATTTTACTTAAATGTGTCTTTAAATAAAATT  
TTTTCTCTAGGTT

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**FIGURE 1395**

MARGGAACKSDARLLLGRDALRPAPALLAPAVLLGAALGLGLGLWLGCRAQRQRTRHQKDDTQNLKKNLESNAQT  
PSETGSPSRRRKREVQMSKDKEAVDECEPPSNSNITAFALKAKVIYPINQKFRPLADGSSNPSLHENLKQAVLPH  
QPVEASPSSSLGSLSQGEKDDCSSSSSVHSATSDDRFLSRTFLRVNAFPEVLACESVDVDLCIYSLHLKDLLHLD  
TALRQEKHMMFIQIFKMCLLDLLPKKKSDDELYQKILSKQEKDLEELEKGLQVKLSNTEMSGAGDSEYITLADVE  
KKEREYSEQLIDNMEAFWKQMANIQHFLVDQFKCSSSKARQLMMTLTERMIAAEGLLCDSQELQALDALERTMGR  
AHMAKVIEFLKLQVQEETRCRLAAISHGLELLAGEGKLSGRQKEELLTQQHKAFWQEAERFSREFVQRGKDLVTA  
SLAHQVEGTAKLTLAQEEEQRSFLAEAQPTADPEKFLEAFHEVLERQRLMQCDLEEEENVRATEAVVALCQELYF  
STVDTFQKFVDALFLQTLPGMITGLPPEECDYLQREVQENAAWQLGKSNRFRQWKLQELLEQDQVWMEECAL  
SSVLQTHLREDHEGTIRGVLGRLGGLTEESTRCVLQGHDLRLRSALRRALRGNALATLTQMRLSGKKHLLQELR  
EQRALEQGSSQCLDEHQWQLLRALRARVLEEASRLEEEAQQTRLQQLQRLLAEAQEVGQLLQQHMECAIGQALLV  
HARNAATKSRKDRDDFKRTLMEAAVESVYVTSAGVSRLVQAYYQQIGRIMEDHEERKLQHLKTLQGERMENYKL  
RKKQELSNPSSGSRTAGGAHETSQAVHQRMLSQQKRFLAQFPVHQQMRHAQQQQAGVMDLLEAQLETQLQEAEO  
NFISELAALARVPLAESKLLPAKRGLEKPLRTKRKKPLPQERGD LGVPNNEDLASGDQTSGLSSKRLSQESE  
AGDSGNSKKMLKRRSNL

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**FIGURE 1396**

CCGATCCGGGCGGTGCTGGCAGCCGGAGCGGCGGGCGGGCGGGCCGAGCAGCCGGGGCAGCCGCGCGTGGGCATCC  
ACGGGCGCCGAGCCTCCGTCCGTGTCTCTATCCCTCCCGGGCCCTTGTGTCAGCGCGCCGCTGGGAGCGGGGCCGA  
GAGCGCCGTTTCCAGTCAGACAGCCCCGAGGTCAGCGGCGGGCCGAGGGCGCCAGAGGGGGCCATGTCGTTACC  
AGGGCAAGAAGAGCATCCCGCACATCACGAGTGACCGACTCCTCATCAAAGGTGGACGGATCATCAACGATGACC  
AATCCCTTTATGCTGACGTCTACCTGGAGGATGGACTTATCAAACAAATAGGAGAGAACTTAATCGTTCTGGTG  
GAGTGAAGACCATTGAAGCCAACGGGCGGATGGTTATTCCCGGAGGTATTGATGTCAACACGTACCTGCAGAAGC  
CCTCCCAGGGGATGACTGCGGCTGATGACTTCTTCCAAGGGACCAGGGCGGCACTGGTGGGCGGGACCACGATGA  
TCATTGACCATGTTGTTCTGAACCTGGGTCCAGCCTACTGACCTCTTTCGAGAAGTGGCACGAAGCAGCTGACA  
CCAAATCCTGTGTGATTACTCCCTCCACGTGGACATCACAAGCTGGTACGATGGCGTTCGGGAGGAGCTGGAGG  
TGCTGGTGCAGGACAAAGGCGTCAATTCTTCCAAGTCTACATGGCCTATAAGGATGTCTACCAAATGTCCGACA  
GCCAGCTCTATGAAGCCTTTACCTTCCTTAAGGGCCTGGGAGCTGTGATCTTGGTCCATGCAGAAAATGGAGATT  
TGATAGCTCAGGAACAAAGCGGATCCTGGAGATGGGCATCACGGGTCCCGAGGGCCATGCCCTGAGCAGACCTG  
AAGAGCTGGAGGCCGAGGCGGTGTTCCGGGCCATCACCATTGCGGGCCGGATCAACTGCCCTGTGTACATCACCA  
AGGTCATGAGCAAGAGTGCAGCCGACATCATCGCTCTGGCCAGGAAGAAAGGGCCCCTAGTTTTTGGAGAGCCCA  
TTGCCGCCAGCCTGGGGACCGATGGCACCCATTACTGGAGCAAGAACTGGGCCAAGGCTGCGGCGTTCGTGACTT  
CCCCCTCCCTGAGCCCGGACCTACCACGCCCCGACTACTTGACCTCCCTACTGGCCTGTGGGGACTTGCAGGTCA  
CAGGCAGCGGCCACTGTCCCTACAGCACTGCCCAGAAGGCGGTGGGCAAGGACAACCTTTACCTGATCCCCGAGG  
GTGTCAACGGGATAGAGGAGCGGATGACGGTCGTCTGGGACAAGGCGGTGGCTACTGGCAAAATGGATGAGAACC  
AGTTTGTGCTGTACCAGCACCAATGCAGCCAAGACTTTAACTGTACCCAAGGAAAGGGCGGATTGCCGTGG  
GCTCGGATGCCGACGTGGTCACTTGGGACCCCCGACAAGTGAAGACCATAACAGCCAAAAGTCACAAGTCGGCGG  
TGGAGTACAACATCTTCGAGGGTATGGAGTGCCACGGCTCCCCACTAGTGGTCATCAGCCAGGGCAAGATCGTCT  
TTGAAGACGGAAACATCAACGTCAACAAGGGCATGGGCCGCTTCATTCCGCGGAAGGCGTTCCCGGAGCACCTGT  
ACCAGCGCGTCAAAATCAGGAATAAGGTTTTTGGATTGCAAGGGGTTTTCCAGGGGCATGTATGACGGTCTGTGT  
ACGAGGTACCAGCTACACCCAAATATGCAACTCCCGCTCCTTCAGCCAAATCTTCGCCTTCTAAACACCAGCCCC  
CACCCATCAGAAACCTCCACAGTCCAACTTCAGCTTATCAGGTGCCAGATAGATGACAACATCCAGGCGCA  
CCGGCCACCGCATCGTGGCGCCCCCTGGTGGCCGCTCCAACATCACCAGCCTCGGTTGAACGTGGATGCGCGGAG  
GAGCTAGCCTGAAGGATTCTGGGAATCATGTCCATCCCTTTTCTGTGAGTGTGTTTGAACCCACAGTTTTAGT  
TGGTGTGATGGAGGGAGGGGAAGTCGAAGGATGCTCTTTCCCTTTTCTGTTAGGAAGAAGTGGTACTAGTGT  
GGTGTGTTTGTCTGGAAATTCCTTGCCCCACAGTTGTGTTTCATGCTGAATCCACCTCGGAGCATGGTGTTCAT  
TCCCCCTCCTAGTGAACCCACAGTTTTTAGCATTGTCTTGTCTGTCCCTTCCACTTCTAACTCCACTGGCTCCA  
TGATTCTCTGAGTGGTGGTTCCCTTGCACCTGTAGATGTTCTAGGATAGTTGATGCATGTTACTAAATTACGTA  
TGCAAGTCTGTGAGTGCCTCTGAGGGGACATCGCCAAGGACTGACTGAGACACGATGCCGAGACCTCAAGCCCTG  
AGGGGCAGTCCCCAAACCTTACAGTGAAGATGTTTACTCATTGCCCCACCTCTGGTCCACACTAGAAAGAAGC  
TCGCCCCACCTCCACCTGTGAGATCCGTGAATTCTCGGAATGGCAGGGGAAGCCTTGCACTAGGTTGCAGAGAAG  
CATCCTCCACATCCTGTGTGAGAAACCCTGGTCTCCGTGGCACTTGTAACCTACCGTGCTGTCTTCTGGTCTGTG  
TGTGTTCTTCAAGCCAGCTCTAGGCTTCAGGCCGAGCCAGGTTCACTCAGAAAGAGGTCTCCCCATCCCCATT  
CGGGGCTGACGATGGGGGGCTGATGGCTGCCCTGCGTGGCCTGAGTCTGGTCCCTCTGAGGCAGTTGACGGGG  
CAGTCAGATTTTTAAAGTTTTGTACAAAGTTTTCTTTGTAATCACTCCATTTTTACTTAACAACCACTTGT  
GTGGCTCTTATTTCTGAATTCAAAGCTTGTGAAAAATAAAGAAAATGAACTGCCCACTGAAAAA

AAA

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**FIGURE 1397**

MSYQGKKSIPHITS DRLLIKGGRIINDDQSLYADVLEDGLIKQIGENLIVPGGVKTIEANGRMVIPGGIDVNTY  
LQKPSQGM TAADFFQGTRAALVGGTTMIIDHVPEPGSSLLTSFEKWHEAADTKSCCDYSLHVDITSWYDGVRE  
ELEVLVQDKGVNSFQVY MAYKDVYQMSDSQLYEAF TFLKGLGAVILVHAENGDLIAEQKRILEMGITGPEGHAL  
SRPEELEAEAVFRAITTIAGRINCPVYITKVMSKSAADI IALARKKGPLVFGEPIAASLGTDGTHYWSKNWAKAAA  
FVTSPPLSPDPTTPDYLTSL LACGDLQVTGSGHCPYSTAQKAVGKDNFTLIPEGVNGIEERM TVVWDKAVATGKM  
DENQFVAVTSTNAAKIFNLYPRKGRIAVGSDADVVIWDPDKLKTITAKSHKSAVEYNIFEGMECHGSPLVVISQG  
KIVFEDGNINVNKGMGRFIPRKAFPEHLYQRVKIRNKVFGLOGVSRGMYDGPVYEV PATPKYATPAPSAKSSPSK  
HQPPPIRNLHQSNFSLSGAQIDDNNPRRTGHRIVAPPGGRSNITSLG



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## FIGURE 1398A

TTTCTCCTTGGACCAAGATGACIGATGGAAAACCTCTCCACCTCTACAAATGGCGTAGCCTTCATGGGTATTCTGG  
ATGGTCGACCAGGAAACCCCTTCAGAACCTGCAACACGTCAATCTCAAGGCGCCCCGACTCCTCTCCGCGCCTG  
AGTACGGGCCCCAAGCTGAAACTCAGGGCTTTAGAAGACCGGCACAGCCTCCAGTCCGTGGACTCGGGGATTCTTA  
CCCTGGAGATCGGGAACCCGGAGCCTGTACCCTGCAGCGCGGTCCACGTGAGGAGGAAGCAGTCCGACTCCGACC  
TCATCCCCGAGCGGGCCTTCCAGAGCGCCTGCGCGCTGCCATCCTGTGCGCCACCAGCTCCTAGCAGCACCAGC  
GGGAACAGAGCGTGCACAAATCCTCCACGTTTCCAGGACAGGCTATGACTCGGTAAAGCTCTATAGCCCCGACCT  
CCAAAGCCCTGACCCGAGCGATGATGTCTCCGTCTGCAGCGTGTCCAGTCTTGGGACAGAGCTGTCCACCACGC  
TGTCGTGACCAATGAGGACATCTTGGACCTTGTGGTACAGAGCAGCTCCAGTGCCATTGTGACCCTGGAGAATG  
ACGATGACCCACAGTTTACCAACGTACCTTGAGCTCTATCAAGGAAACCCGTGGCTTACACCAGCAGGACTGTG  
TTCATGAAGCTGAGGAGGGGAGTAAATGAAAATATTGGGGCCATTTAGTAACCTTCTTTGCAAGGAACTTGCTTG  
CTAGAAAACAAAGTGCAAGGCTTGACAAACACAATGACTTGGGATGGAAGTTATTTGGGAAAGCGCCACTCCGAG  
AGAATGCCCAGAAGGATTCAAAGAGAATACAGAAGGAATATGAAGACAAGGCTGGAAGACCTAGCAAGCCACCT  
CTCCAAAGCAGAAATGTGAGGAAGAATCTTGACTTTGAACCACTTTCCACCACCGCACTCATCTCGAGGACAGAC  
CAGCAAATCTCCAGCAAAACAGCTGAAGAAGCTCAGAAGCACAGACAGCAGTATGAAGAAATGGTGGTTTCAGG  
CCAAAAGCGAGAGCTGAAAGAAGCCCAGCGAAGGAAGAAGCAGCTGGAAGAAAGATGCAGAGTCGAGGAAAGCA  
TTGGAACCGCTGTGCTCACCTGGAATAATGAGATCTTACCTAACTGGGAAACAATGTGGTGCTCTAGAAAAGTTC  
GAGATTTATGGTGGCAGGGAATCCCTCCAAGTGTGAGAGGCAAAGTCTGGAGCTTAGCCATTGGCAACGAGTTAA  
ATATCACCCACGAGCTCTTTGACATCTGTCTTGCCCGAGCCAAGGAGAGGTGGCGGTCCCTTAGCACAGGAGGCT  
CTGAAGTGGAGAACGAAGATGCTGGTTTTTCAGCAGCAGACAGAGAAGCCAGTCTGGAGCTTATTAACCTGGACA  
TTTCTAGAACATTTCTTAATCTCTGCATTTTCCAGCAAGGTGGTCCATATCATGACATGTTGCACAGTATTTTG  
GCGCTTATACTTGTGTACCGGCCAGATGTGGGTTATGTCCAGGGCATGTCTTCATAGCAGCAGTGTGATCTTGA  
ACTTAGATACTGCAGATGCCTTTATTGCCTTTTCTAACCTTCTGAATAAACCCCTGTCAAATGGCGTTTTTTAGAG  
TGGACCATGGCCTTATGTTGACTTATTTTGCTGCATTTGAAGTATTCTTTGAAGAAAATTTGCCGAAATTATTTG  
CGCATTTCAAGAAGAACAACCTAACCTCCAGATATCTACCTAATTGATTGGATCTTTACCTTATATAGTAAATCTC  
TGCCCCCTCGACCTGGCCTGTCTGATCTGGGACGTGTTCTGTGCGGATGGGGAAGAGTTCCTGTTCGCGACGGCCC  
TGGGCATCCTGAAGCTGTTTCGAGGACATCCTGACCAAGATGGACTTCATTACATGGCCAGTTCCTGACCCGGC  
TGCCCGAGGACCTGCCCCGCGAGGAGCTGTTTGCTCCATCGCCACGATCCAGATGCAGAGCCGAAACAAGAAGT  
GGGCTCAGGTACTGACTGCATTGCAGAAAGACAGCCGGGAAATGGAGAAGGGAAGTCCGTCCCTCCGACACTGAG  
GCTGCAGCGGGAATTCGCACTCGGCACCAATCAGAGCCCCATGCCGCGGCCCTCTGTTGTTTCAGACTGACACC  
CGGGCAGCCGAGAAGAACAGACGCTCTTTAAGTTTGATTCTTAACACTGGAGTTGGCCTTAAACAAAACAAACAC  
AAAACTTTTAAAGAATTAAACCAAGGCTTAGCCTTAAGCAGCTCAGTGGAGGATGAGCTGCTGCGGACCACAG  
CCAGCCACTGCATCTGCTGCACAGTTGAACGATGGGCAGTGGCTCACCCCACTCCTTTATTTAGCAAAAGCTA  
ATTAATTTGTAATGTTTCTATGTCAACTACTGGGAAGTATGTTACAGTCTTAGCCAGGATGCATGAGAGATGTTA  
TTTGGGAGACTTGAGATGCTTTGGCTGATATTTACATGTTTTCGATAAGAAAGGATCGCTGATTGAGTTATTGA  
GATAGTTTTTCCAGAGCTGGAGGTCACGTTTCTAAAACTCACCTACGAAAGATAGCATTAAAGGAACAGGGGCTC  
TCTGAGGATGGCCACTGATGTGTGTTTGTGGATACCTGGGCATCGACCCAGCCTGCAGGTGAGCTCTGGGCCATG  
TTGCCTTGACACAGTCACAGTGTAGAGGCTGCAGGTGCACACGTGGGCTCCAGTGGGACTGCGCTCTGGGAGACT  
GCTCCCTGGCATCGGTCTGCGGAGGTGGAAAGTTTCAGAGGAGGAGCTATTTGCGAGGAAGCCCTGTGGCAATA  
GAGATAGGCTTAAAGCGGAGAGAACACAGAGTGAATCAGCCCCCTGTAAGTAAAAGGGTAGAGAAAGAGATGT  
GTGGCTGGGCCCTCTCCACCTGCCTGTTTCAGTGGAGGCCAGGGCAGCAGCCAGAACAGCACATGTGGGGGAGG  
TGGCCCTTGTGCCAGCAGTGGCTCCTCTCTGCTTTGAGCCCTGCACAGCTGGAACCCATCCTAAGTGCCAGTGA  
GTCCCTCACACATTTGACTTTAGAACGTGTGCTTCATGACCCGTTGTACAGACGAGGAGCGAGCAACACACGTC  
TAACAGCCTAGACAATCTCGTCAGATGCTCATACTGGACCATCAGCCTCCCCATTTAGCTGACTTTCCAGGGT  
CGTTGGCAAATTTTTGTTCTGTCTTTTCTTGACTAATTGTAGAACTTTGTGTGAGGACTTTGTTTATCCAAA  
TCACAGAAATGAACCGTTTTCAGCTGCGCAGTCTAAAGGGCAGGCCAGTGTCTGGAAGCAGGGGCCACGTGGCG  
GTCCGTGGCAGGCTGGTCTGGGGAGCATTCTGCGGACCCGCTACGGGCTTGGTTAGTCATGCGTACATGTGT  
GCCTTGGGGTGTCTGCACTCCACGGCCCTTCTCAGCCACACTTCCACCCAGGGGGTGGCCCCAGGCTGATCT  
CATTTCTGATGTTGAGGCTGTTTGGCTCTGTCTGTATAGCTTGTAACAGGAGCCTTGGGCTAGGGGCTGGGGAA

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**FIGURE 1398B**

GGAAAGCCGAGCTGGCATTTCGTTCTCTGGACTTTTTATGCCTGCCATACCCGCTAATGCTCCTCGAGGTGCAGGA  
GCAGGTTGCTGAGCCAGTGGCTGCCCCGTGCCCTCCTTCCCAGCACTATCATGTGTACGTTTCCCGGACTCTGC  
CCCTACATCTCAGCTGAATCTCCAGGGAGGCTGCAGAGCATCGTGGAGACCACTTTCTGCCTCGGCCTTTAAATG  
CTGACTCACCTCCTCTCGGAGGAGGCGTCCTGTCTTACGGGGGGGTCCCGGTGGCCTCCAGACGTAGCCATTTT  
CTGACATCAAGATGTTGAATGTAATCTGGTCTGAGCTGGGCCTGTGGGAGGGGCCGCTGAGGCCTGTGCGCTGT  
TGTCTCGCAGATGTACTTATTTTGTTCATGATACGGGCGTTCCGTTCCCTTAAAGATGTATATATTTTCTTACT  
GTACATAAAGATGTTTCCTTAAAGTCGTACAGAAGGTGGCGCGGCAAAGGGCCTCGTGCAGTGTGTTTCAGATTGCCC  
CTGGGGATCTTCTGTGTCTTCAGCGCCAGCCCTGCGTGTTCCTGGTGAAGCAGTTTCACATCAGTCTCTCCAGA  
TAGCACTACGATGTATTCCGCTTCTGAACAGGATCCCATGCCAGTGTGGAACACCTTCCCAATCTTAGTTTCAGAA  
GTGGCTTGATGACCTGTTTCAGGGGTACATGAGGTCTCGCCAGTTTCCTGGGTCCCTTCAGAGGCCAGAAAGT  
TCTAAGTTCTGAGTCCCCGGCCAGGGTCCCTTAAACCTCGGCACAGAGGCTGTTGGCAAGTGTAGAGGCTGCCT  
CTGTGTGTGGTTTAAAGTAACTGGAAATGAGACATTGACGTGCTGCTCCTCCAGAGGTCTGCACACTCCACTTCA  
CATGCCGTTGACTCTCACAGTCTAAGACTTCAGGGCCGGGACCTTTGTCCAGCCTGCACAGTAGAGTGAGGCTGC  
CTCTCCCGCCAGGCATTGGGATCCCATTTAGAAACGGCATTCACTTCAGAAGGTACTTTTTAACTGCTCAGTTTTT  
TGACTATTTTAAATAGTTTGCTGAAAACTCCTGATAACACTTGCTACATATCATGTTTAAATTGCTTGACAGTT  
AACCTTTAATTTTATTTAGTAAAGTGTATCAAAGTAGGACTTTTTTGAATTGTAAATAGGTGGTTTTATTAAATA  
AAAGTCAATGTAAAATTGTT

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**FIGURE 1399**

MTDGKLSTSTNGVAFMGILDGRPGNPLQNLQHVNLKAPRLLSAPEYGPKLKLRALEDRLSLQSVDSGIPTLEIGN  
PEPVPCSAVHVRRKQSDSDLIPERAFQSACALPSCAPPAPSSTEREQSVRKSSTFPRTGYDSVKLYSPTSKALTR  
SDDVSVCVSSSLGTELSTTLVSNEIDLDLVITSSSSAIVTLENDDDPQFTNVTLSSTIKETRGLHQQDCVHEAEE  
GSKLKILGPFSSNFFARNLLARKQSARLDKHNDLGWKLFGKAPLRENAQKDSKRIQKEYEDKAGRPSKPPSPKQNV  
RKNLDFEPLSTTALILEDRPANLPKPAEEAQKHROQYEEMVVOAKKRELKEAQRKKQLEERCERVEESIGNAVL  
TWNNEILPNWETMWC SRKVRDLWWQGIPPSVRGKVWSLAIGNELNITHELFDICLARAKERWRSLSTGGSEVENE  
DAGFSAADREASLELIKLDISRTFPNLCIFQGGPYHMLHSILGAYTCYRPDVG YVQGM SFIAAVLILNLD TAD  
AFIAFSNLLNKPCQMAFFRVDHGLMLTYFAAFEVFFEEENLPKLFAHFKNNLTPDIYLIDWIFTLYSKSLPLDLA  
CRIWDVFCRDGEEFLFRTALGILKLFEDILTKMDFIHMAQFLTRLPEDLP AEELFASIATIOMQSRNKKWAQVLT  
ALQKDSREMEKGSPSLRH

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**FIGURE 1400**

GCTATGCGGTGGACATCACGCTGCTATTCGGGGCCAGCGTCAAGACCGTGAAGACGCGGAACAAGGCGCTGGGA  
GTGGCGGTGGGCGGGCGGGGTTCGATGGCAGCCGGGACGAGCTGTTCCGCCGGAGCCCCGGCCCAAGGGCGACTTC  
TCCAGCCGGGCCCCGGAAGTGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTAT  
ATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGAT  
GCCCAGATATTTCATGAGGACCTGTTTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCC  
CAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTAC  
TCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAAAT  
ACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAAAGACTCTGAAGAAAACCCTGCC  
ACTGAAGAACGTCCAGAAAAAATTTTGGCTGAAACACAACCTGAATTGGGAACGTGGGGAGATGGCAAAGGCGAA  
GATGAGTTATCCCCAGAAGAAATACAAATGTTTGAACAGGAAAATCAGCGACTAATTGGTGAAATGAACAGCTTG  
TTTGATGAAGTGAGGCAAATCGAAGGGAGAGTGGTTGAGATTTCAGACTCCAAGAGATATTCACGGAAAAGGTT  
TTGCAACAGGAAGCTGAGATTGACAGCATTACCAGTTAGTTGTGGGGGCAACTGAAAATATCAAGGAAGGCAAC  
GAAGACATAAGAGAGGCCATTAAAAACAACGCTGGCTTCCGCGTGTGGATCCTCTTCTTCTCGTGATGTGCTCC  
TTCTCCTTGCTCTTCTCGACTGGTACGACAGCTAGCCAGGGCCACGGGGGGCCAGCACGAGAGTCCTCATGGGC  
ACTCACAGACTGCGTGCTTTCATGTACTTCCAGTGCTGGAGCATGGTATGACCAGATTTTATCACAGTGCCATTT  
GAAGGGAAAGGAGTTTCAGACAGACAGACGTATTCCCCAAAAGGGATACCCAGGCCGATGGTGTTTCAGCCATT  
AGCAGCTGAAAAAGGAAACAGTGACACCAATGGGAGGCAGCCTGCGTAGCCCTCATCAGGCAAGACAGACTGAA  
TGCAGGAGTGGGTGATTAGCTGCTCCTTGAACCTTGAGGCTGCCTTGGCAGCAGGGGCACAGCAGGCCTCAAGAGC  
CCCTAATTGTCTCAGGGTTCAAAGGAAGACACTGACCTTCCCATCCCGGTAGCTTCAGGGAAGATCATAGTTAA  
TAACGTCTCTCAACAAATGATTACTTCTTTGTTTCCTTGTGGCTTCTTGTCTGTCTGAGTCAACGAATACACAGA  
CTTACTGGATTATAGAAGAGAAAATTCACATCTGCCTTGTTAATCTAATAAATATAATTACAGCCCCTTAAAAAA  
AAAAA

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**FIGURE 1401**

MAVDITLLFRASVKTIVKTRNKALGVAVGGGVDGSRDELFRSPRPKGDFSSRAREVISHIGKLRDFLLEHRKDYI  
NAYSHTMSEYGRMTDTERDQIDQDAQIFMRTCSEAIQQLRTEAHKEIHSQQVKEHRTAVLDFIEDYLKRVCKLYS  
EQRAIRVKRVVDKKRLSKLEPEPNTKTRESTSSEKVSQSPSKDSEENPATEERPEKILAETQPELGTWGDGKGED  
ELSPEEIQMFEQENQRLIGEMNSLFDEVQRQIEGRVVEISRLQEIFTEKVLQQAIDSIHQLVVGATENIKEGNE  
DIREAIKNNAGFRVWILFFLVMCSFSLFLDWYDS

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**FIGURE 1402**

AGCTTAGAGGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTGCGGGATATTTTGCAGAAGACGTGCTGTATT  
GCCCAGAAGCCATCGTGTCACTGGTTCGGGGTCTGCGGAGGCTGGCTGCCTGCCGGGAGCACAAGCAGGCTCCTG  
AGGTCTACCTGGCCTTTTACCGTCCGCAACCCAGAGACGTGCCAGCTGTTTACCACCGAGCTAGGCTGGACTGGGA  
TCAGATGGGAAGTGGGAAGCTCATCATGACCAGAACTGTTTCCCTACAGAGAGCACTTGGAGATGGCAATGCTGA  
ACCTCACACTGTAGGACTCACACACGACTCCAACGGGCTTGTGAGAATTAAGTCACTCTCGTGGGAAGAATTTTT  
ATATGGGAAGCGGATAAACTTTCATTGCACTGGAATGTTTGGAAAATGTTAAATTCCAAATCAGGAACCACAA  
ACTGCCCTCTAATAAGACATTGGCTATCTAAGCATGTGGGTGCCCCCTTTCTGCCAGCAGTTCTGGTTCTTAAGA  
AAATCACCATAAATCAGACATGAAAATTCTGGCTCCAAAAATAGCATTCTTTGTGCAAAATAAAACGAGTGTA  
TCAAGTATGACGTTCCCCAACGTGGACACACTTGTTCCTCAGAAAGCCAAACCTGCTGCAGCTGCCACATCCC  
TGGACACACTCGTTTCTCACAAGCCAAGCCCGTACAGCTGCCACATCCCTGGACACACTCGGTTCCCTACAA  
AGCCAAGCCCGCTGCAGCTGCCACATTCTGGGCTTATGGTGCAGCAGGTGCTTTTTTCAAGACAGGAATCAAAG  
TGTAAGGAACATGGCAGAAAGGTGACACCTGGAGACCAAATGCAGGATGAGGAGTACTGCAGAGGTACACGGGAA  
GTCACAGAACAGTAATACGCTGGCAGGGGCATGGGGCATGAAGAACAGAAGAAGACATTGAGAAAAGCATCTGC  
AAAATACTAAAGAGCAGAGCTTACCTCATTTCCGTGTCACCCACCCATCCCAGGTACCCACCTGGCTGACCCAGG  
TCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAATCCCTTACCTGGACTTGAGACCCTTACACCCACAGCAG  
TGCTCCGCCTCCAACCTTGACATCATGCTTTCTGGAACCTTCCCGTGTGTCCCACTTTCCACACTTGGTGGCT  
GGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCTGTGAGCACCTCCTCTCGGCCTCTGGCCAACACAGTC  
CCACCCATCTGTGGGTAACAAGGGGGTGTGGGTGTTCTTTTTCAGCCTTGCTAAACTGTCTGAATCAAGGATCACA  
AACTACAGCCTTCAGGCCAAATCCAGCCACAGCCTGTGTTTGTAATAAAGCTTTATTGGAACAAAGCCACACC  
CCTTAATCTACAGATGATCTGTGGCTACTTTACGCCACAACAGAGTACCATGGTTCTGACAGAGACTGGGGGAC  
CCAGTCTAAATGACTTCCGACCTGGACCTTTACTGAAAAATCCTCCCAATCATTCTGTTGACAAGAATGATGTATT  
ACTTTTTTGCAATAAGAAACAAGTAACATTTGCAGAATTCCACCCATCTTTCAAGGCTGGTCCCAGAAGTTCCCTT  
TGCCACACACCTACCTGATCCTGACAACTTCTAAACTGCAGCCCTGCCACCCGGCTCCAGCATCATTTGTGG  
AGTGTCAAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCCTAACATTCCCGAGCCTACTGTACCGAAACGGG  
ACAGCAGAGTAGGCCAGCATCTGTGACTTCTGCTCCCTCACTAGCTTTTCCACCAGACCCACATGTTACCAACC  
TGGCTGTGGGAAGCAGGGATCAGGGAGTGTGGCTCGGTGCCCGTCTCCAGAACCCTGCCACCCCTGGCGTGGTG  
CAGACATGGTTACCTGCAGCTGAGCTGCCAGTTCTCTGAGTCCTCAAAGACCAGGCCGTTTCTTTCATGTTTCA  
CTAGCTCATGTAAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCCTGGGGAAGACACCAGACCCCTGGGGTG  
CCCAGCTTGCCCTCCCAACCCACCCACGCTCAAGCCAGGCTGGGGGTGGGAACAGGGGGTGTGGTTTCTGGGAGCT  
GGTTCTTAGATTTGGCATCTGAAGCATATAAAGGTCTGGGGGAGTGCACATCAAAATGGCCAAATCAATTTGAGG  
AGGGAGCCTTAAGGAAGGTTTGTACGTTCTGTGCTGGATGCTCTTCAAGTACTGAAGAATTATTTTGCATGTTT  
TTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCACATAAAGATGACTTTT  
CTAGGACACC

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**FIGURE 1403**

MAPEENAGTELWLQGFERRFLAARSLRSFPWQSLEAKLRDSSDSELLRDILQKTVKHPVCVKHPPSVKYARCFLS  
ELIKKHEAVHTEPLDELYEVLAEITLMAKESTQGHRSYLLPSGGSFTLSEITAIISHGTTGLVTWDATLYLAEWAI  
ENPAAFTNRGVLELGSGAGLTGLAICKMCRPQAYIFSDCHSRVLEQLRGNVLLNGLSLEADITANLDAPG

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**FIGURE 1404**

TTGTCCGTGGCTTCTCTGAGAAGAAAAGTTGAAAAAGGGTAAAAGTTTTTCAGGAATATTCGGGCTCTCTATTGCT  
AAGCATAGCGAGTGTTCGGTTTTCTCTCTCCAACAGACATCGCTATTGCGGTTCCGAGGCAGTGGGAAGAGATGCG  
GCCCCGTGGACATCGTCGAGCTGGCGGAACCGGAGGAAGTGGAGGTGCTGGAGCCCAGGAGGATTTTCGAGCAGTT  
TCTGCTCCCGGTCATCAACGAGATGCGCGAGGACATCGCGTCGCTGACGCGCGAGCACGGGCGGGCGGTACCTGCG  
GAACCGGAGCAAGCTGTGGGAGATGGACAATATGCTCATCCAGATCAAAACGCAGGTGGAGGCCTCGGAGGAGAG  
CGCCCTCAACCACCTCCAGAACCCGGGCGACGCGGCCGAGGGCCGGCGGCCAAGAGGTGCGAGAAGGCCGAGGA  
GAAGGCCAAGGAGATTGCGAAGATGGCAGAGATGCTGGTGGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTCGTC  
GTGAGCGCGGTTCGGCGGTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCITGGAGAAGCC  
GAAACCAGAGAGCCTTTTGTCTCTTTTTTCTGTCTATGCTCTGTCTCACTTAACACTACGTTTTCTGCTAT  
GGTCTGTGGTTGATGACCTCAATATGAGTTTCGATTGTTAACGTTTTTGTGGGAAGTAATTTGTTTGAAA  
ATGCTCTCACATACAGGAATTAGGGCCTAGATTGTAAGCTCTTGCAGCAGTCACATTGTTCCCGGGCTTTGGTG  
GTTATTTCTAAATTTTGGAGGTGCTTTGCTATTTCTTGTGTGACCTGATAGCTCCCTGGAACTTTGGGTCTGTGT  
GTGACACATGAGACTCACAGTTGGAGTTCTCCAGCTCTGGAGGTGCTGAAGGAGCTGCATTAATTCTGGAAGACG  
ACTCCATGCAGCAACTACTGAAGAAAGGACCAGACTTCAACGGGGAGTGTGGATGGGCCGACCTGGCTGGGACTC  
GTGAATCTGGAGAAGAGCTGGAGAATGGATAGTATTGTCTGTATTGGAGACTTTAATTTCTGTGTGAGACCAA  
GGAGGAGAGATGTGTTTTGTTCAAAATTTAAATTTGTTGTGGTACACTATCTTATGTAACCTGTCTGGTGAGTTT  
GTTTGGACAACCTAACTCAGCTTTATTTGACATGGAACCTAAATAGAAAGATAAGATCTTGATATTCTGTACAAG  
TTGATGTAATACCCTGATGCGTTTTAGAGGACTTGGCATAAAATGAAAGATTGGCAAAGGCCCTTGAGGGGCTTG  
GGGATGACAGTATGGAACGTCTGCATTGGACCCTAACTGGACTAGAAGAGGCATCTTCAAGGTTTCATACGTTG  
TCCAGCTGTAAGTTCAATTTGAGTAGCAGACCTAACAAATATTTGAGGTCAGAACCTACCATGTTAAACAAACA  
AAAACCTACCATGTTAATAAAAGTATTCATTTGC



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**FIGURE 1405**

MRPLDIVELAEPEEEVLEPEEDFEQFLLPVINEMREDIASLTREHGRAYLRNRSKLWEMDNMLIQIKTQVEASE  
ESALNHLQNP GDAAEGRAAKRCEKAEKAKEIAKMAEMLVELVRRIEKSESS

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**FIGURE 1406**

GTGGGGCAACCTGTTGCTAGTCTGGTCGTTGGTGACAGCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCG  
GCGTGCCCCGCGGGCTGGAAGAGGCGGGCGGCGTGATCGGGCCGTGGACGCGGACGAGGCGGGAGCCCCGCGA  
GGAGCCGGGCAGCCCCGCTGAGCCCCGCGCCCCGCGCGGCGCGGAGAACCTGGCCTCCCTGGAGCGCGAGCGCGC  
CCGGGCGCACTGGCGGGCCCCGAGGAAGCTGCTGGAGATCCAGAGCCTGCTCGACGCCATCAAGAGTGAGGTGGA  
GGCAGAGGAGCGGGGCGCCCGGGCCCCAGCACCCCGCCGCGTGCGGAGGCTGAGGAGCGGGTGGCTCGGCTGTG  
CGCCGAAGCAGAGAGGAAGGCTGCGGAGGCGGGCGCGGATGGGCAGGCGGATCGTGGAGCTGCACCAGCGGATCGC  
CGGCTGCGAGTGCTGCTGAGCCGGCGAGGCCGCGCGGGTCTGGAGCGGAGCGCGGGGGAGTGTCCCGCGTGGA  
AGGCGCTGGGTAGGCAGGGAGGGGAGCGCAGAGCCGTGCCACGCTCTCCGCGGAGTTGGTTTCATTCTTTTCA  
TAGGTAATTAGAGAAAATAATTTGATATGTTGTTGTAAAGAGTCATGACCACTGGAAGTATTTTCAGGACGTAGA  
CCTGGTGGGTACTACGTGGGGGAGAGAGGTGTGAAGCGGAGGTACATGCTGGAACCGTGTGAATGTTGTACG  
AGATTGGAGCAATTTGCGATGACCTTCCTGCAGGTGGAAGCATTGTGCACAGGTGGTTGGGTTTGTGTTGACTCCCG  
GATATGAGAAATCAAGCTCAAAATTTATGTTGTGATGATGAATTTCTCCCACTTGTTACTTTAGGTGGCCAACTG  
ACGAACGTGTGTTACCTGATAAGGAGTCGTGGCTGCTTGGACAGGCTCAAACCAAGAGAGCCTTTCGTTTGTCT  
CCCCGTGTTTTCTGCCTGCGTTTTCTCCACATTAGCCACTCAATTTCCAGTACCATCCTGGCGGATGACTTCAGC  
ATTAGATGGTCAGGTGTATTTTTTTATTAATAGGCGCATTAGTTTGGAAAAGACAGCTTTTCATTAAATGTTCCA  
CGTAAAGGAATATGGCCTATACAGTACGTACGCTGCTGCGTGGTCATATTTGTTCCGTGTGATCTTATTTGATTTT  
CAAAGTTTGGAGTATACTCGTGTGCTTTGCTGTTTTTTATGCTTCCGGAATTTGGGGACTCATGAGAGACTT  
GAGGTTAGAGTTCTGCAAGTGAGAAGACACTACATGGTTGCAGCTGCCACATGAAGAACCAAGCTCCTGTCAAA  
GTTGTGAATGCGACTTTGGATGAGATTAAGAAGGCCAGTGACGGTTGGTCTTGAAGAGTGGCAGTGTGTGGAT  
TTGAGGACCTCTGCAGACCATCAGATCAAAGGAGGGAGAGCTGTTTTGGGTGTTTTGTTTTTTTATAG  
CATTTTGCTTTTTCTTGAATGTAATTTTCTATGGCATGTTAACTGGTGACATCGTGTAACTGCTGCTGGTGAG  
CAACCTACAATTGGGATGAGTTCTAGGTACATGTGTTGCTGACTTTGGGGTAAACAACTTTGTATATAATACAGT  
CTCTGCCACAGATGCATGTGACCTCTCAGGGGCCCAGAGTGCTGAGGAAGGAAAGCTTCAAGCTGGCCATGGG  
GGTCCCAAACAGTCATTCCAGGCTTAGATGATGACTAGCCTAGGTCATCAGAGCCCAGACTCCACAGAGACTAAA  
ATCAGAGCTCTGTCTTGTATGATAAATTTCAATTTGCTTGGAAAAGAAATGCTGAAAGCCAGTGTTTAGAATCT  
TTGTGCAGATGACCAAAGCAATTGACTTGGCCAAGAAAAGGTAAGGTAATAAACATTTTTCAAAATGAAAAAAA  
AAAAA

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**FIGURE 1407**

MRPVDADEAREPREEPGSPSPAPRAGRENLASLERERARAHWRARRKLEIQSLLDAIKSEVEAEERGAPAP  
RPRAEAEERVARLCAEAERKAAEAARMGRRIVELHQRIAGCECC

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**FIGURE 1408**

ATGACCCACACCGTGCAAGGCTTGGATGTGGCTGGTCTTCTGAAAGCACTTCCTCCCATTAACTTCATTCTGT  
TCAGCAGAAACAGACGAGGACCGTCAGGAACACCTGGGAAGGAACGAGAATGGAAGAGCAGAGCAAGGGCAAGG  
CATACAGCCCTGCAGGGAACCCAGAAGGCAGCCATCCCTGACAGTGAGAGCAGCTCTGTCTGGGAAGGCAGAT  
GGGTCTGCCAGAAGCCTGGGCCTGGCCTTGTTGGCCTCACCGGCAAGCTCAAGCTTGCCCCCAGCTGCTGATC  
AAGCAAGACATCGTGTCCCTTCTTAGCAACTTTGTCACCAGGCTGTGCTTCCCAGAGCTGCTGTCACCGCAGTTT  
TTTGTGCAGGAGCCACAACACCTACCCATGCAGTCCATGGACTTCTCAGGTCTCTGGGGCCCCCTCCTGGCTGTG  
GCCITCCCCCGGCTGGGTTTCTGGTGGCCCTCTGGAGTGCAAGAGACCTGGACTGGGCCGACTGGACCGTCCCA  
CACCCTGACCAACTGCTTATGCCTCGCATGTGTCACAACGTTAACAGAGTTATTTGTATATTTGGCCCACCAGTT  
AAAGAACCTCCTACAGATGTTACTCCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTT  
GAGGCCCATAACATTCTCAGGGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATTA  
CATTTTGATAGGGACCCACTTCAAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTGAAACCTTTATTACTAGT  
GACTCCCTGACTGGTATACCTGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAG  
ATTAAGAAGATTCTGGTATTTCTCGAATTATGTATGACTTAACATCAAAGCCCCAGGAATACTGAGTGGGAG  
TAA

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**FIGURE 1409**

MTHTVQGLDVAGLLKALPPIKLHSCSAETDEDRQEHLGRNENGRAEQGARHTALQGTQKAAIPDSESSSCPGKAD  
GSCQKPGPGLVGLTGKLLAPQLLIKQDIVSLLSNFVTRLCFPELLSPQFFVQEPQHLPMQSMDFSGLWGPLLAV  
ASPGLGFLVALWSARDLDWADWTVPHPDQLMPRMCHNVNRVICIFGPPVKEPPTDVTPTFLTGTGVLSTLRQADF  
EAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTFITSDSLTGIPATPGNEIPVEVVLKMYTE  
IKKIPGISRIMYDLTSKPPGTTEWE

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**FIGURE 1410**

GAGCGGCGCCGGCCTCGGCGGCTGAGGAAAGCAGGAGGAGGTGGTGGCGGCGGGAAGATGCCGCTCTTTGGCGTA  
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC  
TGCTTTGAACACCTCAGAAGGGGAGAAATGGATTATCAGGAGTGAAAAAGAAGAGCTTGCTGGGAGTCAAAGAAA  
ATAATAAAAAGTCCAGCACTAGGGCCCCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC  
GCTCAAAAGATAAAGGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCGGGACAAAACGCGAAAAGAGGCACA  
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG  
GCTCAAGCAGTGGCTCCAGCTCTTCTCAGCCTCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT  
CTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA  
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGACATTGGGA  
GACTCACCAGGAATGTGACAAAGGATCACATCATGGAGATATTTCCACCTATGGGAAAATTAAAATGATTGACA  
TGCCCGTGGAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTGCGTAGAGTTTGAGAATCCAGATGAAGCTG  
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGTCGTGCTGGCCCCCT  
GGCCTAGGCCAACCCCAAGGAGATTAGCCCTCCAGGAGAAATGTTGCCACCACCGCCTATGTGGCTCAGGTCTC  
CCCCACGGATGAGGAGAAGGTCCCGCTCCCGAGGCGCAGGTCCCGCTGCGCCGAGATCACGGTCCCCGGGCGC  
GCGCGCGCCACAGGAGCCGCTCCAGCTCCAACCTCTCCCAATAAACAGGCCACTGAAGCTCTCGCCCCGTAACT  
TATACGCCACCCAGCTCAGTTTGTCACTTTTCTAGCCAAAGCAAGACCAGTAGGAAAGCAAACCCCTGACTCTG  
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCTCCGGCTGCAGAAGTGCTGTTGGCTTGGATG  
CTGTGTGCCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCACCCGTTTCCGGTTTTAAGAGTCAGTTCA  
GTGGCAGAGCCACCAGGACAAAGTGAGGCTCTTGGGGGTGGTTTGACCCTGCTTACCTGGGAGCACACTTTTCCC  
TTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCTTTTGGAAAGGGAGCT  
GCCCCAGGCTTTAGTGAGCTGCCAACGCTGTTAGGCCTGGCCTCTCGAGGCCTTCTGACTTCAAGGGTCACA  
GCCCCCAAAGATCCTCTCACCATGGTAGTTGCTGCTCATGGTTCTGTCTGTCCGTGCACCGATGCATACACCA  
CACCCACCGCTGTACTCTGAAATTGGCGAGTGAGTTGAGAGCCAGCTCTGCGGGTGCATCAGCAGCCATGGTT  
GTGCCTGTCCTTCATGGTGGTCTTTCAGGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTGC  
TTTTATTGTACAGTCAGTTCTATAAAATTTCTTTTGTAGTTTTATACCTTTGTAGCATTTTAGATGACATTGTG  
TTTGACTTTTGTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCAAGATCGGAATGC

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**FIGURE 1411**

MDLSGVKKKSL LGVKEN NKSS TRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRHSASSGSSST  
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSSSSSSSSGSPSPSRRRHDNRRRSRSKSKPPKRDEKE  
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYACVEFENPDEAEKALKHMDG  
GQIDGQEITATVVLAPWPRPTPRRFSPPRMLPPPPMWLRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSRSS  
SNSSQ

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**FIGURE 1412**

CTCCACCCTGTGGGCTGTAAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCCCTCCCTGGGACGGTTCC  
GTGGGCAGCCCCATCACTGTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGGACAATCCATCGTGGAGTGTTCTC  
TCAGCTTAGGTCTGGACAGGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTAT  
CTCTGACCTCCCGACAGGGGACACTCCCAGGCCAGCCAGGGGTGAGGGGCAGAGGTGCACACCTCAGCATGAGC  
CAAGACTGGGGTCAGGGAGCAGGTGTGGTTTGAGCCAGGACCTGGGGCGGGGTGGGGCCGGGGCCTTTCTGCCT  
CATTTGCTTTCAATGAAAGCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTCCTCGAGTTTGAATATCCAGAAT  
CTTTTGACTTCTTGTGGTTAAATTGTTTATTTTGTAAAAATAAAATAAAATTAGTTAATAA



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**FIGURE 1413**

ATAGAAGACTACTCGGAGAGCGCTGCCTCTGGGTTGGCGGGCTGGCAGGCTGTAGCCGAGCGCGGGCAGGACTCG  
TCCCGGCAGGGTTCCAGAGCCATGGGAGCGGAAAGGAGGCTGCTGTCGATTAAGGAGGCCTTTCGGCTGGCGCAG  
CAGCCGCACCAGAACCAGGCGAAGCTGGTGGTGGCGCTGAGCCGCACCTACCGCACGATGGATGATAAGACAGTT  
TTTCATGAGGAGTTCATTACCTTAAATATGTTATGGTGGTCTATAAACGTGAACCAGCTGTGGAGAGGGTA  
ATAGAATTTGCAGCAAAGTTTGTTACCTCATTTCACCAATCAGATATGGAAGATGATGAGGAAGAGGAAGATGGT  
GGCCTTTTAAATTATTTGTTTACTTTTCTTAAAGTCTCATGAAGCAAACAGCAATGCAGTGAGATTTAGAGTG  
TGCCTGCTCATAAACAAGCTTTTGGGAAGTATGCCAGAAAATGCTCAGATTGATGATGATGTGTTGATAAAATT  
AATAAGCCATGCTTATTAGATTGAAAGATAAGATTCCAAATGTGAGAATACAGGCAGTTCTGGCGCTTTCACGA  
CTTCAGGATCCCAAGGATGATGAATGCCAGTGGTTAATGCATATGCTACTTTGATTGAAAATGATTCAAATCCA  
GAAGTTAGACGGGCAGTGTTATCATGTATTGCCACATCAGCAAAGACTTTGCCAAAATTGTAGGGCGCACCAAG  
GATGTGAAAAGAGGCTGTCAGAAAGCTGGCTTATCAGGTTTTAGCTGAAAAGGTTTCATATGAGAGCTATGTCCATT  
GCTCAGAGAGTAATGCTCCTTCAACAAGGCTTAATGACAGATCAGATGCTGTGAAACAAGCTATGCAGAAGCAT  
CTTCTTCAAGGCTGGTTACGGTTCTCTGAAGGAAATATCTTAGAGTTGCTCCATCGGTTGGATGAGAAAATCT  
TCTGAAGTGGCAGTCTCTGTTCTCAATGCCTTGTTTTCAATAACTCCTCTCAGTGAAGTGGTGGGACTCTGTAA  
AACAATGATGGCAGGAAATTGATTCCAGTGGAAACATTAACTCCTGAAATTGCTTTGATTGGTGTGCCCTTTGT  
GAATATTTGAAATCAAAGGAGATGAAGGTGAAGAATTTTAGAGCAGATTTTGCCAGAGCCTGTAGTATATGCA  
GACTATTTATTGAGTTACATCCAGAGCATTCCAGTTGTTAATGAAGAACACAGAGGTGATTTTTCCTATATTGGA  
AATTTGATGACAAAAGAATTCATAGGTCAACAATTGATTCTAATTATTAAGTCTTTGGATACCAAGTGAAGAAGGA  
GGAAGAAAAAACTGCTGGCTGTTTTACAGGAGATTCTTATTTTACCCACAATCCCAATATCCCTGGTTTCTTTT  
CTTGTGAAAGACTACTCCACATCATTATAGATGATAATAAGAGAACACAAATTGTTACAGAAATTATCTCAGAG  
ATTCGGGCGCCCATTTGTTACTGTTGGTGTAAATAACGATCCAGCTGATGTAAGAAAGAAAGAACTCAAGATGGCT  
GAAATAAAGTTAAGCTTATCGAAGCCAAAGAAGCTTTGGAAAATTGCATTACCTTACAGGATTTTAAATCGGGCA  
TCAGAATTAAGAAGAAATAAAGCATTAGAAGATGCCAGATAAAACCTTTTGAAAGAGACAGAGCAACTTGAA  
ATTAAGAAGTCCACATAGAGAAGAATGATGCTGAAACATTGCAGAAATGCTTATTTTATGCTATGAACTGTTG  
AAGCAGATGTCCATTTCAACAGGCTTAAGTGCACCAATGAATGGAATCATCGAATCTTTGATTCTTCTGGAATA  
ATAAGTATTCATCTGTTGTAAGAAACCTGGCTGTTTTATGCTTGGGATGCTGTGGACTACAGAATCAGGATTTT  
GCAAGGAAACACTTCGTATTACTATTGCAAGTTTTGCAAAATTGATGATGTCACAATAAAAAATAAGTCTTTAAAG  
GCAATCTTTGACCAACTGATGACGTTTCGGGATTGAACATTTAAACTAAAAAATCAAAACACTTCATTGTGAA  
GGTACAGAAATAAACAGTGATGATGAGCAAGAATCAAAAGAAGTTGAAGAGACTGCTACAGCTAAGAATGTTCTG  
AACTCCTTTCTGATTTCTTAGATAGTGAGGTATCTGAACCTTAGGACTGGAGCTGCAGAAGGACTAGCCAAGCTG  
ATGTTCTCTGGGCTTTTGGTCAGCAGCAGGATTCTTCTCGTCTTATTTTGTATGGTACAATCCTGTGACTGAA  
GAGGATGTTCAACTTCGACATTGCCTAGGCGTGTCTTCCCCGTGTTTGCTTATGCAAGCAGGACTAATCAGGAA  
TGCTTTGAAGAAGCTTTTCTTCAACCCTGCAAACTGGCCAATGCCCTGCATCTTCTCCTTTAGCTGAAATT  
GATATCACAAATGTTGCTGAGTTACTTGTAGATTGACAAGACCAAGTGGATTAAATCCTCAGGCCAAGACTTCC  
CAAGATTATCAGGCCCTTAACAGTACATGACAATTTGGCTATGAAAATTTGCAATGAGATCTTAACAAGTCCGTGC  
TCGCCAGAAATTCGAGTCTATACAAAAGCCTTGAGTTCTTTAGAACTCAGTAGCCATCTTGCAAAAGATCTTCTG  
GTTCTATTGAATGAGATTCTGGAGCAAGTAAAAGATAGGACATGTCTGAGAGCTTTGGAGAAAATCAAGATTCAG  
TTAGAAAAGGAAATAAAGAATTTGGTGACCAAGCTGAAGCAGCACAGGATGCCACCTTGACTACAACACTACTTC  
CAAAATGAAGATGAAAAGAATAAAGAAGTATATATGACTCCACTCAGGGGTGTAAGCAACCCAAGCATCAAAG  
TCTACTCAGCTAAAGACTAACAGAGGACAGAGAAAAGTGACAGTTTCAGCTAGGACGAACAGGAGGTGTCAGACT  
GCTGAAGCCGACTCTGAAAGTGATCATGAAGTTCCAGAACCAGAATCAGAAATGAAGATGAGACTACCAAGACGA  
GCCAAAACCGCAGCACTAGAAAAAGTAACTTAACCTTGCCCAATTTCTCAATGAAGATCTAAGTTAGGAAAGA  
CGATGGAGGTGGAATCCTTTAAGATTATGTCCAGTTATTTGCTTTAATAAAGAAGAAGTTACCCTTGTCAAAATC  
AG

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**FIGURE 1414**

GGCACGAGAACATGGCGGCTCCACTAGGGGGTATGTTTTCTGGGCAGCCACCCGGTCCCCCTCAGGCCCCGCCGG  
GCCTTCCGGGCCAAGCTTCGCTTCTTCAGGCAGCTCCAGGCGCTCCTAGACCTTCCAGCAGTACTTTGGTGGACG  
AGTTGGAGTCATCTTTCGAGGCTTGCTTTGCATCTCTGGTGAGTCAGGACTATGTCAATGGCACCCGATCAGGAAG  
AAATTCGAACCGGTGTTGATCAGTGTATCCAGAAGTTTCTGGATATTGCAAGACAGACAGAATGTTTTTCTTAC  
AAAAAGATTGCAGTTATCTGTCCAGAAACCAGAGCAAGTTATCAAAGAGGATGTGTCAGAACTAAGGAATGAAT  
TACAGCGGAAAGATGCACTAGTCCAGAAGCACTTGACAAAGCTGAGGCATTGGCAGCAGGTGCTGGAGGACATCA  
ACGTGCAGCACAAAAAGCCCGCCGACATCCCTCAGGGCTCCTTGGCCTACCTGGGAGCAGGCATCTGCCAACATC  
CCTGCACCTCTGAAGCCAACGTGAGCAAAGGGCAGAGGCAGTTGGCCTATGAGTGGGCTGATGCGTGAGGXTGGC  
CACACATTCCCTTXCTGTGGACTTGACATTTTTGGAAGAACTCTTTGCCAGATAATGAGTTCATTTTAGTTTTATG  
CTCCCATTGAAAAATTTCCACTATTTTTATAAGCTGTTAATTTCTTGAGTACTTTATAACATGTCTGTAGCTTG  
GATAAACCAAGTAAGTATTTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1415**

MAAPLGGMFSGQPPGPPQAPPGLPGQASLLQAAPGAPRPSSSTLVDELESSFEACFASLVSQDYVNGTDQEEIRT  
GVDQCIQKFLDIARQTECFLLQKRLQLSVQRPEQVIKEDVSELRNELQRKDALVQKHLTKLRHWQQVLEDINVQH  
KKPADIPQGSLAYLGAGICQHPCTSEANVSKGQRQLAYEWADA

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**FIGURE 1416**

CCTAGACGCACGTCCGCTCGCCCCGGCGCCCGAGCCAGTCCGCGCGCACGCCGTCTGCGCCCCGAAAGCCCCGCC  
CAAGGCGCGCCCCGCCACCGCTCTCCACGTGCTCGCTGGAGGGCGGTGCGAGGGGCCGAGCCGACAAGATGTTCT  
TGCTGCCTCTTCCGGCTGCGGGGCGAGTAGTCTGCCAGCTCTGGCCGTGAGACGTTTCGGGAGCCGGAGTCTCT  
CCACCGCAGACATGACGAAGGGCCTTGTTTTAGGAATCTATTCCAAAGAAAAAGAAGATGATGTGCCACAGTTCA  
CAAGTGCAGGAGAGAATTTTGATAAATTGTTAGCTGGAAAGCTGAGAGAGACTTTGAACATATCTGGACCACCTC  
TGAAGGCAGGGAAGACTCGAACCTTTTATGGTCTGCATCAGGACTTCCCAGCGTGGTGCTAGTTGGCCTCGGCA  
AAAAGGCAGCTGGAATCGACGAACAGGAAACTGGCATGAAGGCAAAGAAAACATCAGAGCTGCTGTTGCAGCGG  
GGTGCAGGCAGATTCAAGACCTGGAGCTCTCGTCTGTGGAGGTGGATCCCTGTGGAGACGCTCAGGCTGCTGCGG  
AGGGAGCGGTGCTTGGTCTCTATGAATACGATGACCTAAAGCAAAGAAAGAAGATGGCTGTGTCGGCAAAGCTCT  
ATGGAAGTGGGGATCAGGAGGCCTGGCAGAAAGGAGTCTGTTTGCTTCTGGGCAGAACTTGGCAGGCCAATTGA  
TGGAGACGCCAGCCAATGAGATGACGCCAACAGATTGCTGAAATTATTGAGAAGAATCTCAAAAGTGCTAGTA  
GTAAACCGGAGGTCCATATCAGACCCAAGTCTTGGATTGAGGAACAGGCAATGGGATCATTCTCAGTGTGGCCA  
AAGGATCTGACGAGCCCCCAGTCTTCTTGGAATTCACTACAAAGGCAGCCCCAATGCAAACGAACCACCCCTGG  
TGTTTGTGGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGACCTCATGA  
GGGCTGACATGGGAGGAGCTGCAACTATATGCTCAGCCATCGTGTCTGCTGCAAAGCTTAATTTGCCCATTAATA  
TTATAGGTCTGGCCCCCTCTTTGTGAAAATATGCCCAGCGGCAAGGCCAACAGCCGGGGGATGTTGTTAGAGCCA  
AAAACGGGAAGACCATCCAGGTTGATAACACTGATGCTGAGGGGAGGCTCATACTGGCTGATGCGCTCTGTTACG  
CACACACGTTTAACCGAAGGTCATCCTCAATGCCGCCACCTTAACAGGTGCCATGGATGTAGCTTTGGGATCAG  
GTGCCACTGGGGTCTTTACCAATTCATCCTGGCTCTGGAACAACTCTTCGAGGCCAGCATTGAAACAGGGGACC  
GTGTCTGGAGGATGCCTCTCTCGAACATTATACAAGACAGGTTGTAGATTGCCAGCTTGCTGATGTTAACAACA  
TTGGAAAATACAGATCTGCAGGAGCATGTACAGCTGCAGCATTCTGAAAGAATTTCGTAACATCATCCTAAGTGGG  
CACATTTAGACATAGCAGGCGTGATGACCAACAAAGATGAAGTTCCCTATCTACGGAAGGCATGACTGGGAGGC  
CCACAAGGACTCTCATTGAGTCTTACTTCGTTTCAGTCAAGACAATGCTTAGTTCAGATACTCAAAAATGTCTT  
CACTCTGTCTTAAATTGGACAGTTGAACCTTAAAAGGTTTTTGAATAAATGGATGAAAATCTTTTAACGGAGACAA  
AGGATGGTATTTAAAAATGTAGAACACAATGAAATTTGTATGCCTTGATTTTTTTTTTCATTTACACAAAGATTT  
ATAAAGGTAAAGTTAATATCTTACTTGATAAGGATTTTTAAGATACTCTATAAATGATTAAAATTTTGAAGCTT  
CCTAATCACTTTTCAGAGTATATGTTTTTCATTGAGAAGCAAAATGTAACTCAGATTTGTGATGCTAGGAACAT  
GAGCAAACTGAAAATTACTATGCACTTGTGCAAAACAATAAATGCAACTTGTGTG

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**FIGURE 1417**

ATTCGGAGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGGCGGGCGGCTGCAGGCGAGGCGCGCCGGGTG  
CTGGTGTACGGCGGCAGGGGCGCTCTGGGTTCTCGATGCGTGCAGGCTTTTCGGGCCCCGCAACTGGTGGGTTGCC  
AGCGTTGATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCAGTGAGCAG  
GCTGACCAGGTGACTGCTGAGGTTGGAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGA  
GGATGGGCCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGG  
ACATCGACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTGACCTTGGCTGGCGCAAAG  
GCTGCCCTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGCTGTTACCAGCTCTGCCAGAGC  
CTGGCTGGGAAGAACAGCGGCATGCCGCCCGGGGCGAGCCGCCATCGCTGTGCTCCCGGTTACCCCTGGATAACCCG  
ATGAACAGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAACTTTCCAT  
GACTGGATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTAATCCAGGTGGTAACCACAGAAGGAAGGACGGAA  
CTCACCCAGCATATTTTtaggcctcatctcagtgccctatgaggggctgccagaaaagtcactaacctgtctca  
gtgtggccttggtccagccttggtgttttctgtaaccctgtttgtggtacgagataatgagtcctatTTTTCTCTC  
ACATAATATGCATTTGCTCTCCTAGGACAGTGAATACATTTATGTGAAGTAAAGACATGCGAGACTGGTGGCCT  
GCAATAGCATCCGTTGATCTGTGTTAACTGCATAGGGAGGGCTCTGCATAGCACCTGCTATAGCGGTGTCATGT  
TGGATCGCTTTTGAGTGTTCATCTGTCCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATTGTTGGTAT  
TGGGGACATTTTAAAGGCTGAGTTATTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCATCCTTGAAT  
TAACTGCCTTAACTCCTTTTGTGGTATAAGCAAACTACATGGACTCTGTCCTGGTATCCTTTTCTGTGTGGT  
TGCCCCGTGTCCTCTGGCCTAGGGTTAAGTGTGCAAGATACTACTCGTGAGTATTCAGAATGTTGTTCCCTAATA  
AATGCACTTGTGTCTGTCTCTTTAATCAAATCACATCTTATATACAGCAGTCAGAGATGAGTATACTAGAATC  
ATGATTGCTGGAGGTCTTTAATCTGATGTTCTCAGAAGGGGTGGATTTAAATCCTGAAATAAATATTTCAAC  
AC

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**FIGURE 1418**

ACAGTCCCTCCGGGTGGCGGGGCGCCCCGAGCGTGGCAGCGCGCTAGGCGGCAGCAGCGGGCGCGGAGCGGGGCG  
CGGCCGCCGCGCGTTCCCTCTTGGCGGGGTGGCCGGCCGGGGCGGGGCGCGCGCTCGGGCTCGAGGCATTTCGG  
AGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGGCGGGCGGGCTGCAGGCGAGGCGCGCCGGGTGCTGGTG  
TACGGCGGCAGGGGCGCTCTGGGTTCGATGCGTGCAAGGCTTTTCGGGCTCGCAACTGGTGGGTGGCCAGCGTT  
GATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCACTGAGCAGGCTGAC  
CAGGTGACTGCTGAGGTTGGAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGAGGATGG  
GCCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGGACATCG  
ACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTAACCTTGGCTGGCGCAAAGGCTGCC  
CTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGTCTGTTACCAGCTCTGCCAGAGCCTGGCT  
GGGAAGAACAGCGGCATGCCGCCCCGGGCGAGCCGCCATCGCTGTGCTCCCGGTTACCCTGGATACCCCGATGAAC  
AGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAAACTTTCCATGACTGG  
ATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTCATCTCAGTGCCTATGAGGGGCCTGCCAGAAAAGTCACTA  
ACCTGTCTCAGTGTGGCCTTGTCCAGCCTTGTGTTTTCTGTAAACCCTGTTTGIGGTACGAGATAATGAGTCCTA  
TTTTCTCTCACATAATATGCATTTGCTCTCCTAGGACAGTGAATACATTTAIGTGAAGTAAAGACATGCGAGA  
CTGGTGGCCTGCAATAGCATCCGTCAATCTGTGTTAACTGCATAGGGAGGCTCTGCATAGCACCTGCTATAGCG  
GTGTCATGTTGGATCGCTTTTGTGACTGTTTCATCTGTCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATT  
TGTTGGTATTGGGGACATTTTAAAGGCTGAGTTATTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCA  
TC

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**FIGURE 1419**

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA  
CTCCCGGCACGCCCCGGTGCCGCCCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG  
GGCCGGCCCCGGAGGCTCTCGGCGAGCGCGCGGTAACAAGTGGGCGAGGATGCCGTACGAGATCAAGAAGGT  
GTTCCGCAGCCTCCCGCAGGTGGAGAGGGCGTCTCCAAGATCATCGGCGGCGACCCCTAAGGGCAACAATTTTCT  
GTACACCAATGGAAGTGCCTCATCCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC  
CCATCAGGTGGTGGTGGCCAAGTATGCGCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG  
GATCTGGGATACCACGCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCCTTCGCTGGGAAGATCAAAGACAT  
TGCTTGGAAGTGAAGACAGTAAGAGGATCGCCGTGGTTCGGGGAAGGAAGGGAGAAGTTTGGAGCAGTCTTCTCTG  
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAGTCATCAACAGCGTGACATCAAGCAGAGCCG  
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCATTCTTTGAGGGACCCCCATTCAAGTTCAAGTT  
CACAATTGGCGACACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCTGATGGGAACAGATTGGCCACAGCCAG  
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA  
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTGCTTTCTGCTTCTGGGGACAAAACCTTC  
CAAGATTTGGGACGTCAGCGTGAACCTCCGTGGTTCAGCACATTTCCCATGGGCTCCACGGTTCTGGACCAGCAGCT  
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA  
CCCCAGCAAGCCCCCTGCACGTATCAAGGGTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAAACGGCGG  
CAAGTCTCATATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTCAGAGACGGGGGAGAACGACTC  
CTTCGCTGGGAAAGGCCACACGAACCAGGTGTCCAGGATGACCGTGGATGAGTCGGGCGAGCTCATCAGCTGCAG  
CATGGACGACACCGTGCAGTACACAGCCTCATGCTGCGGGACTACAGCGGACAAGGAGTTGTGAACTGGACGT  
TCAGCCAAAGTGCCTAGCCGTGCGCCCCGGGGGATACGCCGTGGTGTGCTGATTGGACAGATTGTCTCTGTGAA  
GGATCAGAGGAAGTGTCTCAGCATCGACAACCCCGGCTACGAGCCCGAAGTTGTGGCAGTGCACCCCGCGGGGA  
CACGGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCTGTATTCCATCCTGGGCACCACGCTGAAGGATGAGGG  
CAAGCTCCTAGAGGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCCACGACGGCGCCTTCTCGCGGTGTGCGA  
CGCCAGCAAGGTGGTCACAGTGTTCAGCGTTGTGACGGCTACTCGGAGAACAATGTTTTTATGGACACCATGC  
AAAAATCGTCTGCCTGGCCTGTGTCACAGCAATGAACACTTTGCCCTCCGGTGGCATGGACATGATGGTGTATGT  
TTGGACCCCTGAGTGACCCGGAACACAGAGTCAAGATCCAAGATGCACACCGGCTGCACCATGTGACGAGCCTGGC  
CTGGCTGGACGAGCACACGCTGGTCACGACCTCCCATGATGCCTCTGTCAAGGAGTGGACAATCACCTACTGAGG  
AGCCCCACCCCGCCTCTGGATGGACCGAATCAGGCACTAGAGTTTAACTGCAGCGGAACATGTCAATTTCTCTAT  
TTCTGTGACGCGCCCCATGCCCCACCCACCAAGAGGCAGGAGGGCCAGTCATGACCCCTCGTCTCTGCAG  
GGTGTCTGTACAGTTCTTCTGAAAGCTTTAGACAGTAACAGTTTGCACATGAAAAATAAGCGAGCACCTAAAC  
AATGTGTGGAGCATAACTAAACCCACAGCCCAACCAACCTTGAGAATGCGAAACATTCCAGAGGCAGTAGCCT  
CCAAAGCACACAGAGCCCCTGGCCCCGCGCGGCTCTACTATCTGTCAGGGGAGGTGTACAGGTGAATGAGCC  
GGGGGGCTCATGTTCTGCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGAATATGCATTGCAGTTTCAGCAA  
GCCGGAATTCTGTGTTGAACAGATGTCTGTCTCCCTAGTGTGTGACTCACACCTTGTGGCTGCCTTCAGAGCGCC  
ACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTCATTGTCAGATTTTGTGCTTGATTTAAGAATG  
GAATTGTGGGTATCTTTCTTTTTTTTAAATGTATCTTAAGTGTGCTGCTAGTGTGTTTACAACTAGTGCCTTG  
ACGGCACCGTGTCCAAGTTTTTGAACCCCTTGTAGCCAGACCGAGGTGTCTGGTACCCTTTCACCATCATGC  
TTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTTAAGGACAAAGATGAAGTCACTG  
TAAACTAATCTGTCATTGTTTTTACCTTCCTTTTCTTTTCAGTGCAGAAATTAAGTAAGTATAAAGCACCGT  
GATTGGGAGTGTGTTTGCCTGTGTCGGAATCACTGGTAAATGTTGGCTGAGAACAATCCCTCCCCTTGCACTTGT  
GAAACACTTTGAGCGCTTTAAGAGATTAGCCTGAGAAATAATTAATATCTTTTCTCTCAAAAAAAAAAAAAA  
AAAA

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**FIGURE 1420**

MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQV VVAKYAPSGFYIAS  
GDVSGKLRWDTTQKEHLLKYEYQPFAGKIKDIAWTEDSKRIAVVGE GREKFGAVFLWDSGSSVGEITGHNKVIN  
SVDIKQSRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSR FVNCVRFSPDGNRFATASADGQIYIYDGKTGEKVC  
ALGGSKAHDGGIY AISWSPDSTHLLSASGDKTSKIWDVSVNSV VSTFPMGSTVLDQQLGCLWQKDHL LSVLSGY  
INYLDRNNPSKPLHVIKHSKSIQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE  
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVA VGPGGYAVVVCIGQIVLLKDQRKCF SIDNPGYEPEV  
VAVHPGGDTVAIGGVDGNVRLYSILGTTLKDEGK LLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN  
NVFYGHAKIVCLAWSPDNEHFASGGMDMMVYVWTLSDPETRVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVK  
EWTITY



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**FIGURE 1421**

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA  
CTCCCGGCACGCCCCGGTGCCGCCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG  
GGCCGGCCCCGAGGCTCTCGGCGAGCGCGGCGCGGTAACAAGTGGGCGAGGATGCGGTACGAGATCAAGAAGGT  
GTTCCGCCAGCCTCCCGCAGGTGGAGAGGGGCGTCTCCAAGATCATCGGCGGCGACCCTAAGGGCAACAATTTCT  
GTACACCAATGGAAAGTGCCTCATCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC  
CCATCAGGTGGTGGTGGCCAAAGTATGCGCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG  
GATCTGGGATACCACGCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTCGCTGGGAAGATCAAAGACAT  
TGCTTGGACTGAAGACAGTAAGAGGATCGCCGTGGTGGGGAAGGAAGGGAGAAGTTTGAGCAGTCTTCCTCTG  
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAAGTCATCAACAGCGTGGACATCAAGCAGAGCCG  
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCATTCTTTGAGGGACCCCAATTCAAGTTCAAGTT  
CACAATTGGCGACCACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCTGATGGGAACAGATTTGCCACAGCCAG  
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA  
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTGCTTTCTGCTTCTGGGACAAAACTTC  
CAAGATTTGGGACGTGACCGTGAACCTCCGTGGTCAGCACATTTCCCATGGGCTCCACGGTCTGGACAGACACT  
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA  
CCCCAGCAAGCCCCCTGCACGTCATCAAGGTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAAACGGCG  
CAAGTCTTACATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTACAGAGCGGGGAGAACGACTC  
CTTCGCTGGGAAAGGCCACAGAACAGGTGTCCAGGATGACCGTGGATGAGTCGGGGCAGCTCATCAGTGCAG  
CATGGACGACACCGTGCCTGACACAGCCTCATGTGCGGGACTACAGCGGACAAGGAGTTGTGAACTGGACGT  
TCAGCCAAAGTGCGTAGCCGTGCGCCCCGGGGATACGCCGTGCTGTCATTGGACAGATTGTCTGCTGAA  
GGATCAGAGGAAGTGCTTCAGCATCGACAACCCCGGCTACGAGCCCGAAGTTGTGGCAGTGCACCCCGCGGGGA  
CACGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCTGTATTCCATCCTGGGCACCACGCTGAAGGATGAGGG  
CAAGCTCCTAGAGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCCACGACGGCGCCTTCCTCGCGGTGTGCGA  
CGCCAGCAAGGTGGTCACAGTGTTCAGCGTTGCTGACGGCTACTCGGAGAACAATGTTTTTTATGGACACCATGA  
AAAAATAAGCGGAGCACCTAAACAATGTGTGGAGCATAACTAAAACCCACAGCCCAACCAAACTTGAGAATGCGA  
AACATTCAGAGGCACTAGCTCCAAAGCACACAGAGCCCTGGCCCCGCGCGGCTCTCACTATCTGTGAGGGG  
AGGTTGTACAGGTGAATGAGCCGGGGGCTCATGTTCTGCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGA  
ATATGCATTGCAGTTCAGCAAAGCCGGAATTCTGTGTTGAACAGATGTCTGTCTCCCTAGTGTGACTCACACC  
TTGTGGCTGCCCTCAGAGCGCCACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTCATTGTGAGAT  
TTTGTGCTTGATTTTAAGAATGGAATTGTGGGTATCTTCTTTTTTTTTTAATGTATCTTAAGTGTGCTGTCA  
GTGTTTACAACTAGTGCCTTACGGCACCGTGTCCAAGTTTTTGAACCCCTTGTTAGCCAGACCGAGGTGTCT  
GGTCACCGTTTCACCATCATGCTTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTT  
AAGGACAAAGATGAAGTCACTGTAAACTAATCTGTGATTGTTTTTACCTTCCTTTTCTTTTTCAGTGCAGAAAT  
AAAAGTAAGTATAAAGCACCGTGATTGGGAGTGTGTTTTCGCTGTGTCGGAATCACTGGTAAATGTTGGCTGAGAA  
CAATCCCTCCCTTGCACTTGTGAAAACACTTTGAGCGCTTTAAGAGATTAGCTGAGAAATAATTAATATCTT  
TTCTCTTCAAAAAAAAAAAAAAAAAA

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**FIGURE 1422**

MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQVVVAKYAPSGFYIAS  
GDVSGKLRIWDTTQKEHLLKYEQPFAGKIKDIAWTEDSKRIAVVGEGREKFGAVFLWDSGSSVGEITGHNKVIN  
SVDIKQSRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRNVNCFVSPDGNRFATASADGQIYIYDGKTGEKVC  
ALGGSKAHDGGIYAIWSPDSTHLLSASGDKTSKIWDVSVNSVVSFPMGSTVLDQQLGCLWQKDHLLSVLSGY  
INYLDRNNPSKPLHVIKGHKSISQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE  
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGYAVVVCIGQIVLLKDQRKCFSIDNPGYEPEV  
VAVHPGGDTVAIGGVVDGNVRLYSILGTTLKDEGKLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN  
NVFYGHHEK

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**FIGURE 1423**

ATTTTAGCTGTTGGTTCCGGCCGACCGTGTGGGCTGTAGTAGCGGGAGGGGTGGGGTCTCTCAGAGTTAAGTG  
GCTGTCTCGACTGTGCCATACAGCAGCCAGCTTTCTTCTTAATAACTGCCCGTTCGAAGAGTGCAGGATGT  
CCAAGCGGCACCGGTTGGACCTAGGGGAGGATTACCCCTCTGGCAAGAAGCGTGCGGGACCGATGGGAAGGATC  
GAGATCGAGACCGGGATCGTGAAGATCGGTCTAAAGATCGAGACCGAGAACGTGATAGAGGAGATAGAGAGCGAG  
AGAGGGAGAAAAGAAAGGAGAAGGAGTTGCGAGCTTCAACAAATGCTATGCTTATCAGTGCTGGATTACACCTT  
TGAAAGCTTCCCATTCAGCTCACTCAACCCACTCAGCACATTCAACGCATTCAACACATTCTGCTCATTCAACGC  
ATGCCGGACATGCAGGTCACACGTCACCTCCACAGTGCAATTAATCCGTTACCAACTTACCCCATACTCCTCGAT  
ACTATGATATTCTAAAGAAACGCTTTCAGCTCCCTGTTTGGGAATACAAGGATAGGTTTACAGATATTCTGGTTA  
GACATCAGTCCCTTGTACTGGTTGGTGAGACTGGGTCTGGTAAACAACACAGATTCCACAGTGGTGTGTGGAGT  
ACATGCGATCATTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAGGAGAGTGGCTGCAATGAGTGTGG  
CTCAGAGAGTTGCTGATGAGATGGATGTGATGTTGGGCCAGGAAGTTGGTTACTCCATTGATTTGAAGACTGCA  
GTAGTGCAAAAACCATTCCTTAAGTATATGACTGATGGGATGTTACTTCGTGAAGCTATGAATGATCCCTCCTGG  
AGCGTTATGGTGTAATAATTCTTGATGAGGCTCATGAGAGGACACTGGCTACAGATATTCTAATGGGTGTTCTGA  
AGGAAGTTGTAAGACAGAGATCAGATTTAAAGTTATAGTTATGAGCGCTACTCTAGATGCAGGAAAATTCCAGA  
TTTACTTTGATAACTGTCTCTCCTAACTATTCTGGGCGTACACATCCTGTTGAGATCTTCTATACTCCAGAAC  
CAGAGAGAGATTATCTTGAAGCAGCAATTCGAACAGTTATCCAGATTCAATGTGTGAAGAGGAAGAGGGAGATC  
TTCTTCTTTTCTTAAGTGGTCAAGAGGAAATTGATGAAGCCTGTAAGAGAATAAAGCGTGAAGTTGATGATTTGG  
GCCCTGAAGTTGGTGACATTAAATCATTCCATTGTATTCTACACTCCACCTCAGCAGCAGCAACGCGATTTTG  
AGCCTCCACCTCCCAAAAACAGAATGGAGCAATTGGAAGAAAGGTAGTTGTGTCAACTAACATAGCAGAGCGT  
CTTTGACAATAGATGGTGTGGTGTGTTGTGATTGATCCTGGATTTCGGAACAGAAGGTCTACAATCCTCGAATCA  
GAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGCTTCAGCTCAGCAAAGGGCTGGTTCGAGCTGGACGTACCA  
GACCTGGAAAATGCTTCAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGA  
TTTTGCGTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAAAGTTGGTATTGATGACTTGGTACATTTTGATT  
TTATGGATCCACCAGCTCCTGAACTCTGATGAGAGCCCTGGAACCTTTGAATTACCTGGCTGCTTTAAATGATG  
ATGGAGATCTGACTGAATTGGGATCCATGATGGCAGAGTTTCTCTAGATCCACAGCTCGCAAAAATGGTTATTG  
CAAGTTGTGACTACAACCTGTTCTAATGAGGTCCTATCTATTACTGCTATGTTGTCAGTCCCACAGTGTGTTGTT  
GCCCCACGGAGGCCAAGAAAGCCGAGATGAGGCCAAGATGAGATTGCCCCACATAGATGGAGATCATCTGACAC  
TGCTGAACGTCTACCATGCTTTTAAACAAAATCATGAATCGGTTTCAGTGGTGTATGACAACCTTCATTAACCTACA  
GGTCCCTGATGTCCGACAGACAATGTACGCCAGCAGCTATCTCGAATTATGGACAGATTTAATTTGCCTCGTCGAA  
GTACTGACTTTACAAGCAGGGACTATTATATTAATATAAGAAAAGCTTTGGTTACTGGGTATTTTATGCAGGTGG  
CACATTTAGAACGAACAGGGCATTACTTAAGTGTGAAGATAACCAGGTGGTTTCAGTTGCATCCCTCTACTGTT  
TTGACCACAAACCTGAATGGGTGCTTTATAATGAGTTTGTCTAACAACAAAAGATTACATCCGGACATGTACAG  
ATATCAAGCCAGAATGGTTGGTGAAAATTGCCCTCAATATTATGACATGAGCAATTTCCACAGTGTGAAGCAA  
AGAGACAGTTGGACCGCATCATTTGCCAACTTCAATCCAAGGAATATTACAGTACTGAATTTCAGTGCTTAGAAC  
TGAAGTTATTGAGAGGACAGCTTTAAAAGATGAATGAACTCAAAAGTTTCGAGTTGTGCTCTTCAGTTGGTTGCA  
TAATGGCCTTTTATTGAAAGCTTTTTAATTTTCTTTACAGTAAATATTCATTCTGATTTCAATAATTAACAT  
TTATGCCTCCCTTTTGTGTTGACACTGTAGCTCATACTGGAAAAGTCGATCAATGTTTTGCAGTTTATTGAAAGT  
AGTTCTATATATAACAATGTTATAAGCATTCTTTAGAAATGGTTGAAAATGCTTCTAAAATGTGATTATCGACC  
ATGGTAIGCATGATCGTTGTAATTGTTGACATTCTTTTAGAAGTTGTGAAATGTTACAACCTGTGCTTATGTAG  
ACACAATCTTCTGTCTCAGTACAGAGGCACTGACTTCAATAAAGTCTATTTATACT

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**FIGURE 1424A**

AGGATTTTAAGAGTGGACTTGGTATTACCATAATTCCTATGAATGTAGCAAATGTAAAGCAAGTGGACCGAACTG  
TGAAACAATCTTTTGAATAATCACTCCCTACAGGAGTTTCAGCTTTACAGCCGAGACTGAAAAGGAGAAACAAG  
ACTGGATTGAAGCTGTGCAGCAATCAATAGCAGAACTCTCTCTGATTATGAAGTAGCTGAGAAGATTTGGTTCA  
ATGAATCCAACAGGAGCTGTGCAGATTGTAAAGCCCCAGATCCTGACTGGGCATCCATCAATCTCTGTGTGTCA  
TCTGTAAGAAGTGTGCAGGACAGCATAGATCTTTAGGACCAAAGATTCCAAGGTTAGAAGTCTAAAAATGGATG  
CTAGCATTTGGAGCAATGAACATCATCGAGCTTTTATTGTCTATTGGAACAAAAGAGCAAATGACTTTTGGGCTG  
GTAATCTTCAAAAGGATGAAGAATTACATATGGACTCACCAGTAGAAAAGAGAAAAACTTTATTACTCAGAAAT  
ATAAGAAGGAAAATTGAGAAAACTCTTTTGGCATCTCTACCAAAGAAGAATTAAATAAGGCTCTATGTGCTG  
CTGTAGTGAAACCGGATGTTCTAGAAACAATGGCTTTGCTGTTCACTGGAGCAGATGTCATGTGTGCCACCGGAG  
ACCCCGTGATAGCACCCCTATCTGCTAGCCAAGAAAGCTGGGCAAAGTCTGCAAATGGAATTTCTCTACCATA  
ACAAATTCTCAGATTTCCCTCAACATGATATTCAATCCGAGGGTGTATTAAAGTCAAGAGTCTTCCAGTCCACAT  
TCCTCTGTGACTTTTTATATCAAGCTCTCTCTGCTGCTTCTAACTCTCTTTCAGAGAAAAAACTTTTACTCAGAAAT  
CAAATAAAAAATGGTGTGTTTTTGAAGGAGGCTTCTTGAGTTACTATGAAAATGATAAGTCTACCACACCTAATG  
GCACCATTAATATCAATGAAGTTATCTGCCTGGCTATACACAAAGAGGACTTCTATTAAATACTGGGCCATCT  
TTATCTTTGAGATCTACTTACCCTCCGAACGTGTGTTTTTATTGGAGCTGAAACATCTCAAGCTCAAAGAAAAT  
GGACAGAGGCAATAGCCAAGCATTGTTTCCCTTATTGCTGAAAACCTTAACAGAAGCTGACTATGATTGATTG  
GTCAACTCTTCTACAAAGACTGCCATGCCCTGGATCAGTGGAGAAAAGGCTGGTTTGCTATGGACAAATCCAGCT  
TGCATTTTGCCTTCAAATGCAAGAAGTTCAAGGAGATAGAATGCATTAAGAAGACTGCAAGAGCTAACATCA  
GCACAATGGTTCAAATGGGGAAAACTGGATGTTTTACTCTTGGTAGAAAAAGGGAGAACATTATACATCCATG  
GGCATACCAAGTTGGATTTACAGTCTGGCATACTGCAATTGAAAAAGCAGCAGGTACAGATGGTAATGCTTTAC  
AAGATCAGCAGCTCAGCAAAAAATGACGTTCCCATATAGTGAACAGCTGTATAGCATTGTTACACAGTATGGTT  
TAGGATGCAAAATATATCTATCAAAAGAATGGTGATCCTTTGCATATAAGTGAACCTCCTGGAGAGTTTCAAAGG  
ATGCAAGAAGCTTTAAATTGAGGGCTGGAAAACATCAGCTTGAAGATGTGACGGCTGTGTTGAAAAGTTTTCTCT  
CTGACATTGATGATGCACTGCTTACTAAGGAGCTCTACCCATATTGGATCTCTGCTTTAGATACGCAAGATGACA  
AGGAAGAATTAAAAAATATGGAGCATTATACGTTCTCTTCCAGGGGTCAACCGAGCAACACTAGCAGCTATCA  
TTGAACACCTGTATAGGGTTTCAAGAAATGCTCAGAAATCAATCACATGAATGCCATAATTTGGCCTTGGTCTTTT  
CATCTGTTTGTGTTCAAACGAAGGGACAACTAGTGAAGAAGTGAATGTAATTGAGGACCTAATTAATAATTATG  
TAGAAATATTGAGGTTAAAGAAGATCAAGTCAAACAAATGGACATAGAAAATAGCTTTATTACCAAGTGGAAAG  
ACACCCAAGTTTCCAGGCTGGAGATTGTTAATTGAAGTATATGTAGAAAGGAAGGAACCCGACTGTAGTATTA  
TAATTCGGATATCTCCTGTGATGGAAGCAGAAGAAATTAATAATGATATATTAGCGATAAAAAATATTATTCCTA  
CAAAAGTGATATTGTTGGCCACATTTGAAGTCATTGAAAATGAAGAGCTAGAGCGTCTCTTCACTACAAGGAAA  
ATGTACTGGAGCAGGTGCTTCCGTGGAGTTCATTAGCTGAACCTGGCTCTGCTTACCTGGTGGTGAAGAGATTCT  
TAACCGCTGACACAATTAACACTGCAGTGACCGGAGTACACTGGGAAGCATCAAAGAAGGAATCTTGAATACTA  
AAGAAGAACCATCCAAAATACTATCTGGAAATAAGTTTCAAGACCGGTATTTTGTGTTTACGAGATGGGTTTCTCT  
TTCTTTTACAAGGATGTGAAGAGTAGTAAACATGACAGATGTTTTCTCTCAGTTCCATGAAGTTTTATCGTGGAG  
TGAAAAAGAAAATGAAGCCTCCAACAAGCTGGGGATTGACCGCATATTCTGAGAAACATCACTGGCACCTGTGTT  
GTGATAGTTTACGAACTCAGACGGAGTGGATGACCAGTATCTTTATTGCCAGCATGAATATGATATATGGCCAC  
CAGCTGGAAAGGAACGAAAACGTTCAATAACCAAAAAATCCCAAAATTTGGAGGTTTGCCTCTGATTCTATACAGC  
ATGAGGGGAATGCAACCTTGGCCCGGAAAAATATTGAGAGTGCAAGAGCAGAACTTGAAGGCTGCGGCTCAGTG  
AAAAGTGTGATAAAGAGTCCGTGGACTCTAGCTTAAAGGAGAGAGCTTCCATGGTGGCCCACTGCCTGGAGCACA  
AGGACGATAAACTTCGAAATCGACCCCGAAAACATCGGAGTTTCAACTGCCTGGAGGACACAGAGCCTGAAGCCC  
CACTTGGGCAACCAAAAGGCCATAAAGGCCATAAGACATTGAGGAAGACTGAGGACAGGAATAGCAAAGCTACTT  
TGGACTCTGATCATAAGTTACCATCAAGGGTAATTGAAGAACTTAATGTGGTCTACAACGGTCAAGAACCCTTC  
CAAAAGAATTACAGGATGAGCAGATTTGAAGTAGGAAATAAAATGAATTGCTCCCCAGATTATTTTTTTAATAT  
TGTATGCAATCTTTATGTGTAACCTCAAACTGAACATAAGATAATTGATAAGAATTTGCCTATTGATAGGCAA  
ATTTGTCTATGCTTAGGCATTTAAGGAGCATTTAAAAATATGTATATATGTGACTGAATGTAAGATTAACTTTAT  
TTTGGTCTGAACAAACCTTGTAAGTTCCATTGTATTAACGTGTGTAAGAAGACATTGGGTTACTTAGGTGGTCA  
GTCCTTTTAAAGTAGTTGTCTGTTAAGTGGTATAATTTATGAGCAGAAATCTCAAAGTGTACTGTATTGTATAAA

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**FIGURE 1424B**

ATGCTGTGTTTAAATGAAGCCTAAGAACTATCTGTAACATATTTTGCACTTTGAGAAACCTTGTATATTAAATT  
ACCATATGTTTTTAGGTTTACAGAAGTTCTACCTTAGGGAAAAGAAAGGGAAGTAAATTGAAAAAGGGGGAGAA  
TTTATTGTAGTGGCTGCCTAAAAACCACTGGAGTTTTTAAAAGAAGCAAGGAGTTAAATGTCCTGCAAAACAAGG  
AAGTGAGCTAAGATTCACTTAGTTCACTAATGACCAGAACTTGTCAATGAGAAACCACTTGTAAAGAAAAAGTC  
CAGTGTATTTCTCAAGAGTAATATTTCGGCCAACAGATGTAAATAATAGCACTAGCCACTCTTATTAATATTTA  
TAGTGTTAGAAAACCAGCCACATTACAGATTCACTACGTTTGAGCTCATTGTTGGTGGCTGCTAAGAGGAACTT  
ACACTGCATTGGAGAGGTTGTGTACACAGGACCTGGCCTGGATGCTGATTGCACTGTCATTGTATGCAAGCATT  
TGTCTTTTTTTCAGAATTTCTGACTATACTTTTGGTACGAACAAAATTCATCACCACAGGGTCCTGTTGTTTTGTT  
TGATTTTTAGATTTTTTTAAATTATTATTAAGGTTGTAATGTTTTTCTCCGAGTTGTCAGAAATAACTGGAAGAA  
TACAATATATGGCCATTATGGAGCCAGGGGCTAGTTGGTGGTTTACTATACATTGGGGGCTACCTGGTCACATT  
TAATCTAGGTTTTTTTTCTTTTTTAAAGTAAAGGTGTTGGTCTCTCCCTGTACTTATGAATAAGGACAAAGCCC  
TATTTTTGTTTCCACATAAAGATCAGCTACTGAATTGGTGAATTTCTGACAGACAATGCTATCTAACCATAGTT  
CATGTTAGGGGAAGCATTTTTCCATCAGTTTCTTTAAATTTGGATTGTCGGTGAGTTTTGATATTAAACATTAT  
GTAGCTAAGTTTTTTTTTTTAGCATTCTTTTTTATTTTCAATCTATATTCACAGGCCCATACTTCAGTCAGT  
CCAATCATAGTACAGTGATGTGGTGGTAGATGCTATGAATTTCTTCATTGTAAAATACGGATCATTGTATTTTG  
GGGTGATAAAATAGTTCACCATGGGTATGAGATATTTATTCTTTAAATCAAAGTAAATTAGAATTTTTTAAAAAGC  
ACAAAAGTGCAGGACAGTTTATGAAATAGGTGGCACTATTAGGGAATCTTCCTTTAAAGCAAGAAATCATGTTAT  
TTAGAAAGAAAACTAATCTTAAACATACTATTTCTAATAAATATTTATATTTTATGAAATAAAGAGGTATGTG  
GAAATTAATATTTGGTGATGTTGGACAGTGGAAGTATCTAGAGTTTTTACCTGCCTTATCTGAATTCCTTCTTG  
AACTTGAGCTTAACTCTAATAGCTGTTTCCCTTTCTATTCTGAACAAGTCTCCATTTTCAAGTGTGAGAG  
ATAAGGGCTAATGATGACATCTCATTATTTTGAGTAAACATTAAATTTGTTTTACAAGTCTACTTG

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**FIGURE 1425**

TTCTTTCTTTGCTGCGTCTACTGCGAGAAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAAATGT  
CGACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCTGCGGAGGGACTTCAATCACAT  
CAATGTAGAACTCAGCCTTCTTGGAAGAAAAAAGAGGCTCCGGGTGACAAATGGTGGGGTAACAGAAAGGA  
ACTGGCTACCGTTCGGACTATTGTAGTCATGTACAGAACATGATCAAGGGTGTTACTGCGCTTCCGTTACAA  
GATGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTGTTGAAATCCGAAA  
TTTCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAA  
AGATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTCAAATTCAGCGGCTTTGATTCAGCAAGCCACAAC  
AGTTAAAAACAAGGATATCAGGAAATTTTGGATGGTATCTATGTCTCTGAAAAAGGAAGTGTTCAGCAGGCTGA  
TGAATTAAGATCTAAGAGTTACCTGGCTACAGAAAGAAGATGCCAGATGACACTTAAGACCTACTTGTGATATTTA  
AATGATGCAATAAAAGACCTATTGATTGGACCTTCTTCTT

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**FIGURE 1426**

MKTILSNQTVDIPENV DITLKGRTVIVKGPRGTLRRDFNHINVELSLLGKKKKRLRVDKWWGNRKELATVRTICS  
HVQNMIKGVTLGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGEKYIRRVMRPGVACSVSQAQKDELILEGND  
IELVSNSAALIQQATTVKNKDIRKFLDGIYVSEKGTVQQADE

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## FIGURE 1427A

GTCTTGCTTCTTTTTTCATTGATGTAAATTTTTTAACTTAATATGAAAACCTCTCCAAGTCTTGATCATCAGCC  
AGGATTTTGCCACAGCAATTTTCATTCTTATCGGAGCTTGTATGTGTCAAAGTATACTTCAGAGTGCAAACATT  
AAGCAAGTAATATATTTTACCTACAGATACTTATGAAGACATTCTTTCGCTATCGTGAGTAAAAGTATATAAAGC  
TGTTTCTAACTGAAAATGCTTGAAAATAAGCCTGTAATAGAAATATTTTTTCATTTTTTAAAAAAGGGCGGAATTC  
CCAGACTGTCTTCGCTTCTTGCACTTCGCGGGAGAAGTTGTTGGCGGAATGGATCCTGAGCCTCGATAACAGA  
TTCCTCAACCGGCCCCACCCGCCAGCCAGCCAGCGCCTTCATCCTGGGGCTGCGATGGACATTGGAAATTCCTTG  
GAGTAATACCAAGTGGAAGAACTTGTAAGTGAAACAGTAAAGAAGATGAGAAAACAAAGTCTGATGAAGAAA  
CTTTAAAGCAAAGAAAGGAATAAAGGAAATCAAGGTAAATAGCTCCCGTAAAGAGGATGACTTCAAACAAAAGC  
AACCAAGCAAGAAAAAGAGGATCATCTATGATTAGATTAGAGTCAGAGGAGACGTTGAGGTAAAAATGCCA  
AAAAGCCACCAGAAAAACTGCCAGTATCTTCTAAACCTGGTAAAATTCACGGCAGGATCCTGTTACATACATT  
CAGAAACAGATGAAGAAGATGACTTTATGTGTAAGAAGCGGCCTCTAAATCAAAGAGAATGGAAGATCTACAA  
ATAGTCATCTTGGAACATCAAACATGAAAAAGAATGAAGAAAACACTAAGACCAAGAATAAGCCTTTATCACCAA  
TAAAACCTTACACCACATCAGTACTTGATTATTTTGGAACTGGAAGTGCCAAAGATCTAATAAGAAGATGGTGG  
CAAGCAAAGAAAAGAGCTTTCACAAAATACAGATGAGTCTGGATTAAATGATGAAGCCATCGCCAAGCAATTAC  
AGCTTGATGAAGATGCGGAGCTGGAGAGGCAGTTGCATGAAGATGAAGAGTTTGCCAGAACATTAGCCATGTTGG  
ATGAAGAACCAGACCAAAAAGGCTCGAAAGGACACAGAAGCGGGAGAAACGTTTTTCATCTGTCCAAGCCAATT  
TAAGTAAAGCAGAAAAACATAATATCCTCATAAAGTAAAAACAGCACAAAGTTTCAGATGAAAGAAAGAGCTACA  
GTCCTAGGAAGCAAAGTAAATATGAAAGTTCAAAGAATCTCAGCAACATTCCAAGTCATCAGCTGACAAAATAG  
GAGAAGTCTCTTCTCCAAGGCCAGTTCTAAGCTGGCAATTATGAAAAGAAAAGAAGAGAGCTCTTATAAAGAAA  
TAGAGCCTGTGGCCTCAAAAAGAAAAGAAAATGCCATTAAATTGAAAGGAGAGACAAAACTCCTAAGAAAACCA  
AAAGTTCTCCAGCTAAAAAGAGTCTGTAAGTCTGAAGATTCTGAAAAGAAACGCACTAATTATCAAGCTTATC  
GAAGCTACTTAATCGAGAAGTCCCAAGGCTCTGGGCTCCAAAGAAATACCAAAGGGAGCTGAAAATTGCTTGG  
AAGGCCTTATATTTGTAATCACAGGCGTGCTGGAGTCTATTGAACGAGATGAGGCCAAGTCTCTAATTGAACGTT  
ATGGGGGAAAAGTAACAGGAAATGTCAGCAAGAAAACAAATTATCTTGTCATGGGTCTGTATGAGTGGAGATCCA  
AGAGTGATAAGGCCCGAGCCTTGGGGACAAAAATTATGATGAAGATGGCCTGTTGAATCTGATTGGAGATTCGA  
CAGGCAAGAAATCCAAGTATGAAATAGCAGTTGAACTGAGATGAAGAAAGAGTCCAACTGGAGAGAACACCCC  
AAAAAATGTCCAAGGAAAAAGAAAAATTAGTCCATCTAAAAAGGAATCAGAATCTAAAAAGAGCAGGCCGACTT  
CCAAAAGGGACAGTTTGGCAAAGACAATAAAAAAGGAAACAGATGTGTTTTGGAAAAGCCTGGATTTCAGGAGC  
AGGTGGCTGAGGAGACAAGTGGTGACAGCAAGGCTAGGAATTTGGCTGATGACAGCAGTGAAGACAAAGTGGAAA  
ATTTGCTCTGGGTGGATAAATATAAGCCAACCTCGCTCAAGACCATAATTGGACAGCAAGGTGACCAGAGCTGTG  
CCAACAACTCCTACGCTGGCTCCGAACTGGCAAAGAGTTCTTCCGAAGATAAAAAACACGCAGCAAAGTTTG  
GTAAATTTCCGGCAAAGATGATGGCTCTAGTTTTAAAGCAGCGTTGCTGTCAGGCCCTCTGGTGTGGCAAAA  
CCACCACAGCTTCCCTGGTGTGTCAGGAGTTGGGATACAGCTAGTGAAGTGAATGCAAGTGACACCCGGAGTA  
AGAGCAGTTTGAAGGCGATTGTTGCTGAGTCACTGAACAATACCAGCATCAAAGCCTTTTATTCAAATGGAGCAG  
CCTCTTCAGTAAGCAGCAAAACATGCTCTCATCTGGATGAAGTAGATGGCATGGCAGGCAATGAGGATAGGGGAG  
GAATTCAGGAATTAATTGGCCTGATAAAACATACTAAAATCCATTATTTGATGTGCAATGATAGAAATCATC  
CCAAGATTCGCTCTCTGGTTCAATTATGTTTTGATCTTCGTTTTCAAAGACCTCGGGTTGAACAGATTAAGGGTG  
CTATGATGTCTATTGCATTTAAAGAAGTTTTAAAGATTCCCCCTCCAGCTATGAATGAAATAATTTTGGGAGCCA  
ATCAAGATATCAGACAGGTTTTACATAATCTGAGTATGTGGTGTGCACGAAGTAAAGCATTAACTATGACCAGG  
CCAAAGCTGATTTCTACAGAGCCAAAAGGATATCAAATGGGCCCATTTGATGTTGCCCGGAAAGTGTGTCAG  
CTGGAGAGGAGACTGCTCACATGTCATTGTGGACAAGTCAGATCTCTTTTTTCATGATTATTCAATAGCACCCC  
TCTTCGTCCAGGAAAATTACATACACGTGAAGCCTGTAGCAGCAGGGGTGACATGAAAAAGCACCTGATGCTTT  
TAAGCAGAGCAGCAGACAGCATATGCGATGGTGACCTAGTGACAGCCAGATCCGGAGTAAGCAAACTGGAGTC  
TTCTGCCTGCGCAGGCCATTTATGCCAGTGTTCTTCCTGGAGAGTTGATGAGGGGTACATGACCCAGTTTCCCA  
CCTTCCCAAGCTGGCTGGGGGAAGCACTCGTCTACAGGCAAACATGATCGTATTGTTTCAAGGACCTGGCCTTGCA  
TGAGTCTCAGAACTTACTCCAGCAAAGGACTGTAAACATGGATTATCTGTCGCTTCTAAGGGATGCACTTGTAC  
AGCCCTTGACCTCACAAGGAGTAGACGGAGTACAGGATGTTGTTGCACTTATGGACACATATTATTTGATGAAAG  
AAGACTTTGAGAATATCATGGAATCAGCAGCTGGGGTGGCAAACCTAGTCCCTTTTCAAAGCTGGATCCCAAGG



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**FIGURE 1427B**

TGAAAGCAGCCTTCACAAGAGCTTACAATAAGGAAGCCCACCTTACTCCATACTCACTTCAAGCTATAAAGGCAT  
CTAGACACAGCACAAAGCCCATCCCTGGATTTCGGAATACAATGAAGAATTAAATGAAGATGACTCTCAATCTGATG  
AGAAAGACCAAGATGCTATAGAAACTGATGCCATGATCAAGAAAAAGACAAAATCTTCAAAGCCTTCAAACCAG  
AAAAAGATAAGGAGCCCAGAAAAGGAAAAGGAAAAAGTTCTGAAGAAATGAAACCATTTTCACTAGCGACAGCCA  
CTTTTTACTCTCCCTCCTGACCAGTCCAGCTGGTCTAGAGAAAGCCTTGTTTTTTCCAGAGCAACCATGTTTTA  
GCATAATGGGATGACCTGGTGTCCCATTATAAATAAAGGGTGGTATGGCTAGAAGGGTATGAGCAGTAGGCTTAT  
GTACACCTCTTATAGAGGTTGATAGGACTGCTTGGGTCTCCACTGTCTCTGTCAATCTAGTTAGACGTGCTTC  
TGAATGACTGTAGAATTGGAAGTAGAACTACACCTGGGCTTTGGAGTCAGATTTTAGTTAACAATAATGAGCCT  
GGAGCAGTAGTACTAAGGCGTCTTTTGTAGGCTTAAGAATTTATCCTAATGGCCTTTATAGGACCAATGCTGATT  
TTTTTTAAAGGCAGTTCCATTATGTGGTGAAATTTGTAAATAAATGATTATACAAAACAGTCACCACCTAGAA  
CTGGGTATTCTTTGTACATTGTCAGATATCTTTCAAAGTATAAATTAGGAATAAAAATGTTCCACATGATATGTG  
TACAAATTCTTTTAAAGATTGTCATCTTGTACAGCAAAATATTATGTTGGTATATTACTTCCTTATTAATTTGCA  
AATGATTGGATTAAAAAAGCTCACTGTATTCTTACTAACCTGTTGTGTGAAACATAACATTGGCAGTCGAGGAG  
TCAGAACTCGGATTCCCAGCCTCACTCCCTCTGTGTGTGTTGACCACGTCTCTGCTGTGAATAGGATTTGATGCA  
GTGGTCTGTTATGGGGCTTTGCAGCGTGGGGGGCTGCAGAAGATTCTCAGACATTCTATCCTTCTGGAGTCTCA  
ACCCATCAGGTTGAGACCAGTAGGAACCAGGCTGGGTGAGGCTCTTAATTTCACTACGGTGGGGGACAAAATGAA  
CACTGGCTTTTGTTCACTTTGCCCCTGAGAGATCTAGTCCTGTCTGTGATGGCTTCCACAAACCCCTGTTGGAAG  
TTTGGGTATTCTTATAACTGTATGTGTTGAGTGGCCGTGACGTATGGACCTAGCCTGGAATTTAGATGCTTAGC  
TATTTTTTAATCTTGTGGTAAATGCTCAGAGGTCTGTGCTACCTCTGTGAGGTATATACTAAAATGAATGTAAA  
ATAAGGATCGTATTCCCTGCTTTAAGGAAGTGGTAGTCTTGTGTTGGGTGATGAGACAAAGTTCTTGAGACATTTA  
AACTGTATTACCAGTGTGAAAAATGTCATTTATGGAGATTAAATCATTATGGAAATAAAACATTGCCTAAGCCC  
TTGCCTGCTG

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**FIGURE 1428**

MDIRKFFGVIPSGKKLVSETVKKNEKTKSDEETLKAKKGIKEIKVNSSRKEDDFKQKQPSKKKRRIYDSDSESEE  
TLQVKNNAKKPPEKLPVSSKPGKISRQDPVTYISETDEEDDFMCKKAASKSKENGRSTNSHLGTSNMKKNEENTKT  
KNKPLSPIKLTPTSVLDYFGTGSVQRSNKKMVASKRKELSONTDESGLNDEAIAKQLQDDEDAELERQLHEDEEF  
ARTLAMLDEEPKTKKARKDTEAGETFSSVQANLSKAEEKHKYPHKVKTAVSDERKSYSPRKQSKYESSKESQQHS  
KSSADKIGEVS SPKASSKLAIMKRKEESSYKEIEPVASKRKENA IKLG ETKTPKKTSSPAKKE SVSPEDSEKK  
RTNYQAYRSYLNREGPKALGSKEIPKAENCLEGLIFVITGVLESIERDEAKSLIERYGGKVTGNVSKKTNYLVM  
GRDSGQSKSDKAAALGTKIIDEDGLNLIRTMPGKKSKYEIAVETEMKKESKLERTPQKNVQGKRKISPSKKESE  
SKKS RPTSKRDSLAKTIKKETDVFWKSLDFKEQVAEETSGDSKARNLADDSENKVENLLWVDKYKPTSLKTIIG  
QQGDQSCANKLLRWLRNWQKSSSEDKKHA AKFGKFSGDDGSSFKAALLSGPPGVGKTTTASLVCQELGYSYVEL  
NASDTRSKSSLKAIVAESLNNTSIKGFYSNGAASSVSTKHALIMDEVDMAGNEDRGGIQELIGLIKHTKIPIIC  
MCNDRNHPKIRSLVHYCFDLRFQRPRVEQIKGAMMSIAFKEGLKIPPPAMNEIILGANQDIRQVLHNLMSWCARS  
KALTYDQAKADSHRAKDKIKMGPF DVARKVF AAGEETAHMSLVDKSDLFFHDYSIAPLFVQENYIHVKPVAAGGD  
MKKHLMLLSRAADSIDGDLVDSQIRSKQNWSLLPAQAIYASVLPGELMRGYMTQFPTFPSWLKGHSSTGKH DRI  
VQDLALHMSLR TYSSKRTVNMDYLSLLRDALVQPLTSQGV DGVQDVVALMDTY YLMKEDFENIMEISSWG GKPS  
FSKLDPKVKA AFTRAYNKEAHLTPYSLQA IKASRHSTSPSLDSEYNEELNEDDSQSDEKDQDAIETDAMIKKKTK  
SSKPSKPEKDKEPRKGKGKSSK

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**FIGURE 1429A**

ATAGTTCGCGTAGCGGCTCGAGCGTGGAGATGAAGCGTATTTTCTCACTGCTAGAAAAGACTTGGCTTGGCGCAC  
CAATACAGTTTGGCTGGCAAAAAACATCAGGAACTACCTTGCAGTAACAGGAGCTGATTATATTGTGAAAATCT  
TTGATGCCATGGTCAAAAAAGAAGTGAATTAACCTTACCTGGTAACGTGTGGCCATGGATTGGGATAAAGATG  
GAGATGTCCTAGCAGTGATTGCTGAGAAATCTAGCTGCATTATCTTTGGGATGCCAACACAAATAAGACCAGCC  
AGTTAGACAATGGCATGAGGGATCAAATGTCTTCTCTTTGGTCAAAAGTTGGAAGTTTCTGGCTGTTGGAA  
CTGTTAAAGGAAATTTGCTTATTTATAATCATCAGACATCTCGAAAGATTCCGTGCTTGGAAAACATACTAAGA  
GAATCACTTGTGGATGTTGGAATGCAGAAAATCTGCTTGCTTTAGGTGGTGAAGATAAAATGATTACAGTTAGTA  
ATCAGGAAGGTGACACGATAAGACAGACACAAGTGAGATCAGAGCCTAGCAACATGCAGTTTTTCTTGATGAAGA  
TGGATGACCGAACCTCTGCTGCTGAAAGCATGATAAGTGTGGTGTGGCAAGAAAACCTTTGTTTTTTTAAATC  
TGAATGAACCAGATAACCCAGCTGATCTTGAATTTACAGCAGGACTTTGGCAACATTGTCTGCTATAATTGGTATG  
GTGATGCCCCGCATCATGATTGGTTTTTCATGTGGACATTTTGTGGTCATTTCTACTCATACTGGAGAGCTTGGTC  
AAGAGATATTTACAGGCTCGTAACCATAAAGATAATCTAACCAGCATTGCAGTATCAGAGCTCTTAACAAAGTTG  
CTACATGTGGAGATAACTGCATTAAAATCCAAGACTTGGTTGACTTAAAAGACATGTATGTTATACTCAACCTGG  
ATGAGGAAAAATAAGGATTGGGTACCTTGTCTGGACTGATGATGGCCAGTTGCTAGCACCTCTACCCAAAGGG  
GCTCACTTCATGTTTTCTGACCAAGCTTCCCATACTTGGGGATGCCTGCAGCACAAGGATTGCCATCTCACCT  
CCCTCCTTGAAGTCACCGTAGCCAACCTGTTGAAGGAGAGCTACCAATCACAGTTTCTGTTGATGTGGAACCCA  
ACTTTGTGGCAGTAGGTCCTTATCATCTGGCTGTAGGAATGAATAATCGAGCTTGGTTTTATGTCTTGGAGAAA  
ATGCTGTGAAAAAATTGAAGATATGGAGTATCTGGGAACAGTAGCCAGTATTGCTTTCATTCTGACTATGCTG  
CTGCATTTTTGAAGGCAAAGTCCAGTTACATTTGATAGAAAGCGAAATCTTGGATGCTCAAGAAGAACGTGAGA  
CTCGGCTTTTCCAGCAGTGGATGATAAGTGCCGTATCTTATGCCATGCCCTAAGTATGATTTCCTCATCTATG  
GTACAGATACTGGTGTCTGTTTCACTATTTCTACATTGAAGACTGGCAATTCGTTAATGATTATCGACATCCTGTCA  
GTGTGAAAAAGATTTTTCCCGACCCAAATGGGACCAGATTAGTTTTTCATTGATGAAAAAGTGATGGATTTGTTT  
ACTGTCCAGTCAATGACGCTACCTATGAGATTCCAGATTTTTACCAACCATTAAGGTTGTTCTTTGGGAAAACT  
GGCCAATGGATAAAGGTGTATTTATTGCTTATGATGATGATAAGGTGTACACTTATGTCTTTACAAGGACACTA  
TACAAGGAGCCAAGGTTATTTTGGCTGGTAGCACCAGTTCTTTTGTCTATAAACCTTTGCTGCTATATAATG  
GAGAGCTGACCTGCCAAACACAGAGTGGAAAAGTAAACAACATCTACCTTAGCACCCATGGCTTTCTCAGCAACT  
TAAAAGATACGGGGCTGACGAACCTGAGACCAATGCTGGCACAGAAATTAATGCTAAAGAGGTTTTCTGATGCTT  
GGGAAATGTGCAGGATTCTGAATGATGAGGCTGCTGGAATGAGTTGGCCAGAGCTTGTCTACATCAGTGAAG  
TGGAGTTTGAATCCGTGTTTATCGGAGAATTGGAAATGTTGGCATAGTGATGCTTGGAAACAAATAAAGGGAA  
TAGAGGACTACAATCTTTTGGCAGGACACCTTGCCATGTTTACCAACGATTATAACCTGGCTCAGGACTTGTACC  
TTGCATCCAGCTGTCTATTGCTGCCCTGGAGATGAGAAGGGATTACAGCATTGGGACAGTGCTCTACAACCTGG  
CAAAGCATTGGCCCCAGACCAGATACCTTTTATATCAAAAGAATATGCTATTACAGCTTGAATTCGCGGGTGATT  
ATGTAAATGCTTTGGCTCATTATGAGAAAGGAATAACAGGTGATAATAAGGAACATGATGAAGCTTGTCTGGCTG  
GAGTGGCCCAGATGTCCATAAGAATGGGAGACATACGTCGAGGGGTTAACCAAGCCCTCAAGCATCCCAGCAGGG  
TCCTTAAAGAGACTGTGGAGCCATATTGGAGAATATGAAGCAATTTTCAGAAGCGGCCCACTGTATGAAAAAG  
GTCTCTACTACGATAAAGCAGCATCTGTTTACATCCGCTCTAAGAATTGGGCAAAAGTTGGTGATCTTCTGCCCC  
ACGTTTCTTCTCCTAAGATCCATTTCAGTATGCCAAAGCCAAGGAAGCAGATGGAAGATACAAAGAAGCTGTG  
TAGCTTATGAAAATGCAAAACAGTGGCAAGTGTAATCCGCATCTATCTGGATCACCTCAATAATCCTGAAAAAG  
CTGTCAATATTGTTAGAGAGACCCAGTCTCTGGATGGAGCCAAAATGGTAGCCAGGTTTTTTCTACAGCTTGGTG  
ACTATGGGTCTGCCATCCAGTTTCTTGTCTATGTCCAAATGCAACAATGAAGCTTTCACACTGGCTCAGCAACACA  
ACAAAATGGAAATCTATGAGATATTTATTGGTTCTGAAGACACTACTAATGAAGACTATCAAAGCATTGCCTTAT  
ACTTTGAAGGAGAAAAGAGATATCTTCAGGCTGGAAAATCTTCTTGTGCTGTGTGGCCAATATTCAGGACTTA  
AACACTTCTGAAATGCCAAGCTCGGAAGATAATGTGGCAATAGAAATGGCAATTGAACTGTTGGTCAGGCCA  
AAGATGAACCTGCTGACCAATCAGCTGATAGACCATCTCCTGGGGGAGAACGATGGCATGCCTAAGGATGCCAAGT  
ACCTGTTCCGTTGTACATGGCTCTGAAGCAATACCGAGAAGCTGCCAGACTGCCATCATCATTGCCAGAGAAG  
AGCAGTCTGCAGGCAACTACCGAATGCACACGATGTTCTCTTCACTATGTATGCAGAACTGAAATCCCAGAAGA  
TCAAAATTCCTCCGAGATGGCCACCAACCTCATGATTCTGCACAGCTATATACTAGTAAAGATTTCATGTTAAAA  
ATGGAGATCACATGAAAGGGGCTCGCATGCTCATTGGGTGGCCAACAACATCAGCAAATTTCCATCACACATTG

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**FIGURE 1429B**

TACCCATCCTGACGTCAACTGTGATTGAGTGTACAGGGCAGGCCTGAAGAACTCTGCTTTCAGCTTCGCAGCTA  
TGTTGATGAGGCCTGAATACCGCAGCAAAATAGATGCCAAATACAAAAGAAGATCGAGGGAATGGTCAGGAGAC  
CCGATATATCTGAGATAGAAGAGGCCACGACTCCATGTCCATTCTGCAAATTTCTTCTCCCAGAGTGTGAACGCC  
TCTGTCTGGATGTAAAAACAGTATCCCATATTGCATTGCAACAGGTCGACACATGTTGAAAGATGACTGGACGG  
TGTTGCCACATTGTGACTTCCCTGCTCTATACTCAGAATTGAAGATCATGCTAAACACTGAAAGCACATGTCCTA  
TGTTTCAGAAAGATTAAACGCTGCTCAGCTGAAAAAGATTTGAGACTGTACCCAGTACCTGCGAACGGAGGAGG  
AACTGTGATTGGCACGTGCAGATACAATGCTCCTGAGAAGACAGCATTTTCCACAGGAGGCTGTTTCTTCCCCTG  
GTGGATTTAAGAGACGGTCCTTTCTGGATACAGAGAAATGAAACAACGGTGACCTCTCCAGGTCGGCACTTTCCA  
CTTCTGTACGGTGGCAAAACGATGACATGTAACCTTGCTGTTTATTGTACTTTGTATATTATTTCTCTTCAAAG  
TCTTCTTACACACTCTATCCTCTGCACTGTTAATAGTAACCTATGACATAATTGTAAATATTCAGCTTTTGTCT  
AACTTTTGATTTTGAAAACTTTAAATAAAATTGTTGACTAG

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**FIGURE 1430**

GGCACGAGGCCTGGGCGGCTCCGCTAGCTGTTTTTCGTCTTCCCTAGGCTATTTCTGCCGGGCGCTCCGCGAAGA  
TGCAGCTCAAGCCGATGGAGATCAACCCGAGATGCTGAACAAAGTGCTGTCCCGGCTGGGGGTGCGCGGCCAGT  
GGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGCTCGGTGCCAGCGCCTGCCTGCGCGCTGCTGC  
TGCTGTTTTCCCTCACGGCCCAGCATGAGAACTTCAGGAAAAAGCAGATTGAAGAGCTGAAGGGACAAGAAGTTA  
GTCCTAAAGTGTA<sup>CTT</sup>CATGAAGCAGACCATTTGGGAATTCCTGTGGCACAATCGGACTTATTCACGCAGTGGCCA  
ATAATCAAGACAAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTTTCTTTCTGAAACAGAGAAAATGTCCC  
CTGAAGACAGAGCAAAATGCTTTGAAAAGAATGAGGCCATACAGGCAGCCCATGATGCCGTGGCACAGGAAGGCC  
AATGTCGGGTAGATGACAAGGTGAATTTCCATTTTATTCTGTTTAAACAACGTGGATGGCCACCTCTATGAACCTG  
ATGGACGAATGCCTTTTCCGGTGAACCATGGCGCCAGTTCAGAGGACACCCTGCTGAAGGACGCTGCCAAGGTCT  
GCAGAGAATTCACCGAGCGTGAGCAAGGAGAAGTCCGCTTCTCTGCCGTGGCTCTCTGCAAGGCAGCCTTAATGTCT  
CTGTGGGAGGGACTTTGCTGATTTCCCTCTTCCCTTCAACATGAAAATATATACCCCCCATGCAGTCTAAAAAT  
GCTTCAGTACTTGTGAAACACAGCTGTTCTTCTGTTCGAGACACGCCTTCCCTCAGCCACACCCAGGCACTT  
AAGCACAAGCAGAGTGACAGCTGTCCACTGGGCCATTGTGGTGTGAGCTTCAGATGGTGAAGCATCTCCCCAG  
TGTATGTCTTGTATCCGATATCTAACGCTTTAAATGGCTACTTTGGTTTCTGTCTGTAAGTTAAGACCTTGGATG  
TGGTTTAATTGTTTGTCTCAAAGGAATAAACTTTTCTGCTGATAAGATAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1431**

MQLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSPAPACALLLFPLTAQHENFRKKQIEELKGQEV  
SPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQAAHDAVAQEG  
QCRVDDKVNHFHILFNNVDGHLIELDGRMPFPVNHGASSEDLLKDAAKVCREFTEREQGEVRFSAVALCKAA

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**FIGURE 1432**

GCCAAACACCAGAGCACCCTAGAAGGTTTAACTAAAAGAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAG  
GCCATGGACCCTGTCTCAGTGTACATACCCATCTAATTACATGGAATCCATGAAGCCTAACAAGTATGGGGTCATC  
TACTCCACACCATTGCCTGAGAAGTTCTTTAGACCCCAAGGTTCTGTCGCACGGAATACAGATGGAGCCAGTG  
GACCTCACGGTGAACAAGCGGAGTTACCCCCCTTCGGCTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCCTCA  
CACCGGAGAGCCTCGCCTGGGTGAGCATGCCTTCTTCCAGCCACCGATAAAAAAATACTACCCCCCTTCTCCA  
GGCGTGCAGCCCTTCGGCGTGCCGCTGTCCATGCCACCAGTGATGGCAGCTGCCCTCTCGCGGCATGGAATACGG  
AGCCCGGGATCCTGCCCGTCATCCAGCCGGTGGTGGTGCAGCCCGTCCCCTTTATGTACACAAGTCACCTCCAG  
CAGCCTCTCATGGTCTCCTTATCGGAGGAGATGAAAAATTCCAGTAGTAGCATGCAAGTACCTGTAATTGAATCA  
TATGAGAAGCCTATATCACAGAAAAAATTAAATAGAACCTGGGATCGAACCACAGAGGACAGATTATTATCCT  
GAAGAAATGTACCCCCCTTAATGAACTCAGTGTCCCCCGCAAGCATTGTTGCAAGAGAATCACCTTCGGTC  
ATCGTGCAGCCTGGGAAGAGACCTTTACCTGTGGAATCCCGGATACTCAAAGGAAGCGGAGGATACACAGATGT  
GATTATGATGGATGCAACAAAGTGACACTAAAAGCTCCCACTTGAAAGCACACAGAAGAACACACACAGGAGAA  
AAACCCTACAAATGTACATGGGAAGGGTGACATGGAAGTTTGCTCGGTCTGATGAACTAACAAGACATTTCCGA  
AAACATACTGGAATCAAACCTTTCCAGTGCCCGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTC  
CATAGGAAACGCCACATGCTAGTCTGATTGCCTCTGTGTCTGCTCAGCGTGACTCCCCACTCACCTGGCTCTC  
TCTCTGTCTGCTGCCATTCATTATCTAACACATTTTTTACATGTACATTTAATTTGATTTCAGCTGGTCTGAATCTC  
TGAATTTATATCATCCAAAACCTCCATATGGTCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGT  
CAGACCTAAAGAAATGTGAACACTTTTTT

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**FIGURE 1433**

CCTTTCCGCTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAG  
AAGCAGTCTGATGTACGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGG  
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCAACCTGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGG  
ATTTGTGTTAGCCGTGGTGGCCGAAAACGCCCAGTTCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT  
GTAAACCAGCTAAAATTTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGGGCTCT  
GGGAGTCCCTGAATTCTTACTGGGTGGTGAAGATTCCACATACAAATTTTTTGAGGTATCCTCATTGATCCATT  
CCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGGAGATGCGTGG  
GCTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAGGGCCATAAGTTCACCACACTATTTGTGGTTCTCG  
CCGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATACAAGTAAAGTTTGTAAAATTC  
ATACCTAATAAGTCTGCAGATGTTTCTTGAATGC



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**FIGURE 1434**

CAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAGAAGCAGTCTGATGTCA  
CGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGGGCTCCCCGCCCCACCC  
GGCCTGATAAAGCGCGCCAAC TGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGGATTTGTGTTAGCCGTG  
GTGGCCGTAACCAGCTAAAATTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGG  
GCTCTGGGAGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT  
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGG

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**FIGURE 1435**

GCCGCTGCCACCGCACCCCGCCATGGAGCGGCCGTCGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT  
CCTGCTCCTGCCCCCTCTCCTCTTCTCCTCTTTCGGACACCTGCGGCCCTGCGAGCCGGCCTCCTGCCCCCCCCT  
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG  
CGAGCCGTGCGGGGGTGGCGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCCTGAAGAGCCGCAAGAG  
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTCGTGTGCAAGAGCCGCTACCC  
GGTGTGCGGCAGCGACGGCACCACTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG  
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCAAGGA  
CATCTGGAATGTCACTGGTGCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG  
GAACAAGGTAAAAAGGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT  
TCAGACCCGGGGTGGCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC  
TGGAGAATATGAGTGCCATGCATCCAATTCCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC  
CTTACATGAAATACCAAGTAAAAAAGGTGAAGGTGCCGAGCTATAAACCTCCAGAATATTATTAGTCTGCATGGT  
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCTAATAAGTTTCTTTAATCCAATCCACTAACACTTT  
AGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT  
ATATATTTACAGAAGAAAAGCATGCATATCATTAAACAAATAAAATACTTTTTATCACAAAAA

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**FIGURE 1436**

MERPSLRALLLGAAGLLLLLLPLSSSSSSDTCGPCEPASCPLPPLGCLLGETRDACGCCPMCARGEPECGGGG  
AGRGYCAPGMECVKSRKRRKGKAGAAAGGPGVSGVCVCKSRYPVCGSDGTTYPSCQLRAASQRAESRGEKAITQ  
VSKGTCEQGPSIVTPPKDIWNVGTGAQVYLSCEVIGIPTVLIWNKVKRGHYGVQRTLLPGDRDNLAIQTRGGPE  
KHEVTGWVLVSPLSKEDAGEYECHASNSQGGASASAKITVVDALHEIPVKKGEGAEI

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**FIGURE 1437**

GGCACGAGGCTCGGGTCAAATGCGCGCCTCGGACCCTAGTGCGCGTGCGCGCTGGTGGCTCCGCCCTTTGGAGC  
TACTTCCTCATGCTGCCCCGCTCGCCTACCGTTCAGGCTGCTGAGCCTTTTCCTTCGTGGATCCGCTCCACGGCA  
GCGGCGCATGGCCTCCGGGAGCCGCTCCTGGAGAGGAGGTGCGCTGCCGCTCCTCCTTCCAGCACTCATCGAGT  
CTGGGACGCGAGCTTCCTTATGACCCCGTGGACACGGAGGGCTTTGGAGAAGGTGGTGACATGCAGGAGCGTTTT  
CTGTTCCCGGAGTACATCCTGGATCCGGAGCCGCAACCCACCCGCGAAAAGCAGCTGCAGGAGCTCCAGCAACAG  
CAGGAGGAGGAGGAGCGACAGAGGCAGCAGCGGCGGGAGGAGCGGCGACAGCAAAACCTACGGGCCAGGTCCCGG  
GAGCACCCGGTCGTGGGGCACCCGGACCCGGCATTGCCGCCAGCGCGTGAAGTCTCGGGCTGCGGGGCAGAG  
CTGCACTGCCAGGACGCCGGAGTGCCCGGCTACCTGCCCGAGAGAAGTTCTCCGCACGGCGGAGGCAGACGGC  
GGGCTGGCACGGACCGTGTGCCAGCGCTGCTGGCTGCTGTGCGACACCGGCGCGCTCTACGCCTGCAGGTGAGC  
CGCGAGCAGTACCTGGAGCTGGTGAGCGCCGCGTTGCCGCGGCCCGGCCCTCCTGGTGCTCTACATGGTGGAC  
CTGCTGGACCTGCCCGACGCCCTGCTGCCCGACTTGCCCGCGCTGGTGGGCCCCAAGCAGCTGATCGTGCTGGGA  
AACAAGTGGACCTCCTGCCCGAGGATGCTCCTGGCTACCGGCAGAGGCTGCGGGAGCGACTGTGGGAGGACTGT  
GCCCCGCGCGGGCTCCTGCTGGCCCTGGCCACCAAGGGCCACAGCGCCCCGTCAAGGACGAGCCACAGGACGGG  
GAGAATCCGAATCCGCCGAAGTGGTCCCGCACAGTGGTCAGGGACGTGCGGCTGATCAGCGCCAAGACCGGTAT  
GGAGTGAAGAGTTGATCTCTGCCCTTCAGCGCTCCTGGCGCTACCGTGGGGACGTCTACTTAGTGGGCGCCACC  
AACGCCGGCAAATCCACTCTCTTTAACACGCTCCTGGAGTCCGATTACTGCACTGCCAAGGGCTCCGAGGCCATC  
GACAGAGCCACCATCTCCCCTTGCCAGGTACTACATTAAACCTTCTGAAGTTTCTATTGCAACCCAACTCCT  
TACAGAATGTTTTAAAGGCATCAAAGACTTAAAAAGATTCAACTCAAGCTGAAGAAGATCTTAGTGAGCAAGAA  
CAAAATCAGCTTAATGTCTCAAAAAGCATGGTTATGTGCTAGGAAGAGTTGGAAGGACATCTTGTATTGAGAA  
GAACAGAAGGATAACATTCCCTTTGAGTTTGATGCTGATTCACTTGCCCTTGACATGGAAAATGACCCTGTTATG  
GGTACACACAAATCCACCAACAAGTAGAATTGACTGCACAAGATGTGAAAGATGCCCACTGGTTTTATGACACC  
CCTGGAATTACAAAAGAAAATTGTATTTAAATCTTCTAACAGAAAAAGAGTAAATATTGTTTTGCCAACACAG  
TCCATTGTTCCAAGAACTTTTGTGCTTAAACCAGGAATGGTTCTGTTTTTGGGTGCTATAGGCCGCATAGATTT  
CTGCAGGGAAATCAGTCAGCTTGGTTTACAGTCGTGGCTTCCAACATCCTCCCTGTGCATATCACCTCCTTGGAC  
AGGGCAGACGCTCTGTATCAGAAGCATGCAGGTACATCGTTACTCCAGATTCCAATGGGTGGAAAAGAACGAATG  
GCAGGATTTCTCCTCTTGTGCTGAAGACATTATGTTAAAGAAGGACTGGGGGCATCTGAAGCAGTGGCCGAC  
ATCAAGTTTTCTCTGCAGGTTGGGTTTACAGTAACACCTAATTTTAAGGACAGACTGCATCTCCGAGGCTATACA  
CCTGAAGGAACAGTTTTGACCGTCCGGCCCCCTCTCTTGCCATATATTGTTAACATCAAAGGACAGCGCATCAAG  
AAAAGTGTGGCCTATAAAACCAAGAAGCCTCCTTCCCTTATGTACAACGTGAGGAAGAAGAAAGGAAAGATAAAT  
GTATGAGACCGACCTTGTTCACTCCAGATATTAAGTGTATTGAACACAACAAAATACATTGAATTTGTATTAAAC  
ATATAACGCATAAATAAAGCTCCCATTTCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1438**

MLPARLPFRLLSLFLRGSAPTAARHGLREPLLERRCAAASSFQHSSSLGRELPYDPVDTEGFGE GDMQERFLFP  
EYILDPEPQPTREKQLQELQQQEEEEERQQRQRRERRQONLRARSREHPVVGHPDPALPPSGVNCSGCGAELHC  
QDAGVPGYLPREKFLRTAEGGLARTVCQRCWLLSHHRRALRLQVSREQYLELVSAALRRPGPSLVLYMVDLLD  
LPDALLPDLPALVGPQLIVLGNKVDLLPQDAPGYRQRLRERLWEDCARAGLLLAPGHQGPQRPVKDEPQDGENP  
NPPNWSRTVVRDVRLISAKTGYGVEELISALQRSWRYRGDVYLVGATNAGKSTLFNTLLES DYCTAKGSEIDRA  
TISPWPGTTLNLLKFPICNPTPYRMFKRHQRLKKDSTQAEEDLSEQEQNLNVLKKHGYVVG RVGRTFLYSEEOK  
DNIPFEFDADSLAFDMENDPVMGTHKSTKQVELTAQDVKDAHWFYDTPGITKENCILNLLTEKEVNIVLPTQSIV  
PRTFVLKPGMVLFIGAIGRIDFLQGNQSAWFTVVASNILPVHITSLDRADALYQKHAGHTLLQIPMGGKERMAGF  
PPLVAEDIMLKEGLGASEAVADIKFSSAGWVS VTPNFKDRLHLRGYTPEGTVLTVRPPLPYIVNIKGRIKKS V  
AYKTKKPPSLMYNVRKKKGKINV

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**FIGURE 1439**

GAAAGCTGTATTTGCTGCACGTGGAAATCTCCGTTATTTTCCAGCACCCAACAGTAGCGTAATGGGAGTAACGGA  
CTTAACCTCATTTCCTTTTCAGAGCATTAGCCTTCATATGCCCTTCCCTGCATGCTTCCCCAGGCCGTCAAGA  
CTTGAGTTCTGCCTCGCTTCCCGGCGCGGTTCGAGCCCTCAGCCCACTTAGGATAATGGCGACAGCTGAGGTACT  
GAACATTGGTAAAAAATTATATGAGGGTAAAAACAAAGAAGTCTACGAATTGTTAGACAGTCCAGGAAAAGTCCT  
CCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAAAAACACCTGGAAGGAAAAGCTGCAATCTC  
AAATAAAATCACCAGTTGTATTTTTCAGTTATTACAGGAAGCAGGTATTAAACTGCCTTCACCAGAAAATGTGG  
GGAGACAGCTTTCATTGCACCGCAGTGTGAAATGATTCCAATTGAATGGGTTTGCAGAAGAATAGCAACTGGTTC  
TTTTCTCAAAGAAATCCTGGTGTCAAGGAAGGATATAAGTTTTACCCACCTAAAGTGGAGTTGTTTTCAAGGA  
TGATGCCAATAATGACCCACAGTGGTCTGAGGAACAGCTGATTGCTGCAAAATTTGCTTTGCTGGACTTCTTAT  
AGGCCAGACTGAAGTGGATATCATGAGTCATGCTACACAGGCTATATTTGAAATACTGGAGAAATCCTGGTTGCC  
CCAGAATTGTACACTGGTTGATATGAAGATTGAATTTGGTGTGATGTAACCACCAAAGAAATTGTTCTTGCTGA  
TGTTATTGCAATGATTCTCGAGACTCTGGCCATCAGGAGATCGAAGCCAACAGAAAGACAAACAGTCTTATCG  
GGACCTCAAAGAAGTAACCTCTGAAGGGCTCCAAATGGTAAAGAAAACTTTGAGTGGGTTGCAGAGAGAGTAGA  
GTTGCTTTTGAAATCAGAAAGTCAGTGCAGGGTTGTAGTGTGATGGGCTCTACTTCTGATCTTGGTCACTGTGA  
AAAAATCAAGAAGGCCTGTGGAAATTTTGGCATTCCATGTGAACCTCGAGTAACATCTGCGCATAAAGGACCAGA  
TGAAACTCTGAGGATTAAAGCTGAGTATGAAGGGGATGGCATTCTACTGTATTTGTGGCAGTGGCAGGCAGAAG  
TAATGGTTTGGGACCAGTGATGCTGGGAACACTGCATATCCAGTTATCAGCTGTCTCCCTCACACCAGACTG  
GGGAGTTCAGGATGTGTGGTCTTCTCTTCGACTACCCAGTGGTCTTGGCTGTTCAACCGTACTTTCTCCAGAAGG  
ATCAGCTCAATTTGCTGCTCAGATATTTGGGTTAAGCAACCAATTTGGTATGGAGCAAAGTGCAGCAAGCATT  
GAACACATGGATTTCCTTGAAGCAGGCTGACAAGAAAATCAGAGAATGTAATTTATAAGAAAGATGCCATTGAA  
TTTTTTAGGGGAAAAACTACAAATTTCTAATTTAGCTGAAGGAAAAATCAAGCAAGATGAAAAGGTAATTTTAAAT  
TAGAGAACACAAATAAAATGTATTAGTGAATAAATGCTTCTCTAGATCCATATTAATAAACATGAGCATCTAAC  
CCTCCTTTCTTAGGCTAGACACCAAGATATTTAGCCAGCCTTTATCATTCTCTTACTTTATCCTTTTCTCTTA  
AGTATTGGTGGTCACTACTATTGAGTTTCTTCCCTAACACTGATTAAATGATCTTAACTCCCTCAGCTAAAACTG  
GCATTACTGACTCCCAGCTATATTTCTCCAGACTTGCAATTTTTTTTTTTTTTTTGGAGACAGGGTCTCACTGTG  
CCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTTCACTGCTGCTTCCCTCCTGGGCTCAAGCAGTTCTCCACCT  
CAGCCTCTCGACTAACAGGGACTATAATCTTGCAGCACCATGCCGAGCTAATTTTATTTTGTAGAGATGAGCT  
CTCACTATGTACCCAGGTTTCTGCTCAAACCTCTGAACCTTAGTAATCTCTATCTCAGCCTCCCAAAGTGCTA  
GGGTTACAGACATGAGCCACTGTGCTGTCTAGACTTGTACTTTCAACTGTCCATTTCTCCCTGTCTGTCCCATG  
GGCACTCATGAAAAACAGAATGCTCCCAACTTTATTCATCTTCCAAGCCTGTAGCTCTTGGTATACTCACTGTT  
GCAAGTCAGAAGCTTGATTTATCATTTGATGTTTTCTCACGTTTCACATCTCACTCATCACCAGTCATGTTGG  
TGTTAATTTCTGATTAAACCTTGAAATTTACCGTCTTCTCATCCTCTGTACAAAAGCCTCAAGTGAGGGTCAAAT  
CAACATTATCCTGATCTAGACAGCCCCATTCTCAATCCACCCTTTTCCAAGTTGATTGCCAAGGACTTCTAAC  
AATAAACTCTCTTTTGACACAGACTTCTTTGAAAAATATACATGCTGTTGACCCTCTCTGTAGAAAACCGCACA  
CATAAACTTACCAACAGATTTTATTGGTTCTTGGGTTCTCCCGAAGCCTATCCATGGTTTATAGATTAAGAATT  
GATGAGGTAGCTGGGCACAGTGGCTCACACCTACGATCACAGCACTTCGGGAGGCTGAAGCAAGCAGATCACTTG  
AGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAACCTGTCTCTACTAAAAATACAAAAAGTAGCCAGC  
CGTGATGACAGGCACCTGTAATCCAGCTACTCGGGAGGCTGAGGCATGAGAATTGCTTGAACCCGGGAGGCCGA  
GGTTGCAGTGAGCCTAGATCATGCCACTGCACCTCCAACCTGGGCAGCAGAGCAAGACTCTGTCTCAAAGGGGAA  
AAAAAAATTGCTGATGTGACCCATGAAGGGAACCTCAATTTCTCGTAATTTTGGACTGCCACACATTGGTACCT  
TAGTTCTCTGAAGGCCACGTTTTTATCATTAAAGACCTATTTGTTAGCTAGTAGAGCTTTATGTTGCTGTCCA  
TGAAACCTTCTGTAACCACAGTGACTACAAGTAGTTCTTCTCTATTGAATTATTAGGTCCAGAATAGAAGATGT  
CATTGTACACTTTATTTCCCTCACACTGTGTTATGCTCTGATGTGCTATGCTTAGCTATCTGTCAGAGATTAGTA  
AATTATAAACTCATGTGTACTACTTAAGTTTATATCTTATGCTAGTTTATAAGAACAATTAAAAGGACTTAGAA  
GATTAA

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## FIGURE 1440A

TCGGGAAGGAAGAGCCTGTCGCGAGCGCGAGCTTCTGAGCTCGACGGGCGGAGCTGGCAGCTGGTTGGTGCTTAC  
ACCTTGGCCGCGAGCGGCAGGTCCTTCCACGTGCTTTCGGCGGCGACATGGAGCTGGAGGAGTTGGGGATCCGAGA  
GGAATGTGGCGTGTTCCGGGTGCATCGCCTCAGGAGAGTGGCCACGCAGCTGGATGTACCGCATGTGATCACTCT  
GGGACTCGTGGGGCTGCAGCACCGGGGTGAGGAGAGTGTGGTATTGTGACTAGTGTGAGGAGTTCGGTGCCAAAC  
ATTCAAATCACACAAGGGAATGGGTCTTGTAAATCACGTCTTTACTGAAGACAATTGAAAAAATTATATGTTTC  
AAATCTTGGAAATTGGACACACCAGGTATGCCACCACAGGAAAATGTGAAGTAGAAAATTGTCAGCCCTTCGTGT  
TGAAACACTTCATGGGAAGATAGCTGTGGCACATAATGGCGAATTGGTAAATGCTGCTCGATTAAAGGAAAAAGCT  
TCTGCGTCATGGTATTGGTCTGTCTACAAGTTCGATAGTGAATGATTACCCAGTTACTGGCGTATACCCCTCC  
TCAGGAACAAGATGACACCCCGAGCTGGGTAGCCAGGATTAAAACTTGATGAAGGAAGCACCCACAGCATACTC  
CCTGCTTATAATGCACAGAGATGTTATTTATGCAGTACGAGATCCTTATGGAAATCGTCCCTTATGCATTGGTGC  
TCTTATTCCAGTGTCTGATATAAATGACAAAGAGAAAAAACATCAGAAACAGAAGGATGGGTGGTGTCTTCAGA  
ATCTTGTAGCTTCTTATCTATTGGTGCAAGATATTACCGTGAAGTCTTGCTGGAGAAATGTGGAATATCCAG  
ACACAATGTCCAACTCTTGATATTATATCAAGGTCTGAAGGAAACCCAGTGGCTTTTGTATCTTTGAATATGT  
TTATTTTGAAGACCAGACAGTATGTTTGAAGACCAATGGTTTATACAGTAAGATACCGTTGTGGCCAGCAGCT  
AGCGATTGAAGCACCTGTGGATGCAGATTGGTTAGCACTGTTCCAGAATCTGCTACGCCTGCTGCTCTTGCTTA  
CGCAGGAAAGTGTGGACTTCCATATGTGGAGGTGCTGTGTA AAAACCGGTATGTAGGGAGAACCTTCATTACGCC  
AAACATGAGGTTAAGACAACCTTGGTGTGCAAAAAAATTTGGAGTATTGTCAGACAACCTTTAAAGGCAAAAGAA  
TGTTCTTGTAGATGATTCAATTGTGAGAGCAATACCATCTCACCTATAATAAACTGCTCAAAGAATCTGGTGC  
AAAAGAGGTACACATTGAGTAGCTTACCACCAATTAAATATCCATGCTTCATGGGAATAAACATTCTACAAA  
AGAAGAGCTCATTGCCAATAAACAGAAATTTGATCACCTTGCAAGATATCTAGGAGCAACAGTGTGTGTATCT  
GTCAGTAGAAGGACTGGTTTCATCTGTACAAGAAGGGATAAAGTTTAAAAACAGAAAGAGAAAAAGCAGATAT  
TATGATCCAAGAAATGGAATGGTCTGGAATGTTTTGAAAAGAGTGGTCAATTGTACAGCTTGTCTACTGGAAA  
ATATCCTGTAGAATTAGAATGGTAGCTGGTAGGGTTGGATGTGTGTAGTTCAAGATAGAAAGTTGGTCAAGAAG  
TTATAGTGGTCACACCTCATCTATTTACTGTTACTCAGTTGGTACAATGTAAAATGCCATGCTTATGTTTATAAG  
TTTTGAGATTTTTTTTTTTTCTGAAAAGGATACCAAAGTGCAGTAACCTGAACATTTCCAATTGCATATAATACAA  
CAATATGTGGTGTCTTTTTTTTACACAAGCATTGGCTAGCCTTTTTAACCTGGTCAGAGAAGGCAGGTGGTCAC  
TGACATTTCCCAAGTCCATGCTTTAAAGGGTTTGAAGAAGTTAGGGTTAAGGAGAGGTGATGCCAACAAAGACAG  
GTGAGTTAAATATACCATTTCACACAAGTTTGAATAGAATACATTATACCTCATAGGTGTCTAGCCTCTACAGT  
TCTGGCTGTAGTTATGACCTTGGCTTCCCTGTCTAACTGTAGACAAATCTTTAAAAAAAATAATAATAATCTGG  
TGCCCTCAGTTTCCCCACATGTGCAATGGGATACCTTATTAATAATTAAATAAGAATGTGAATAAGTGTACACTTT  
TGTGATTTGAGCCATCATTTCACTTCTGATTTAAGACAACCTCATGATTGTTAGCTTTTCAGAAAGCTAATGATTG  
TTAACTTTTTGAAATTAGTTTACAATTAATTAAGATTTCATTATGATGGAAGGAGACATAATTGGCAGATCTTTG  
CCATCTCTCTTTGAGATGTCCTAAAAAGGGTTGTAAAAATCTGTGAAAAAGTTTTCTACATTTGACTAGAAAA  
TGTGATCCATAGTATTTAGTGCCCTGATACTATAAGCTCAGCAAGTAACCTGGTACATTTGAAATAAAAAACCAA  
TTTTTAGATTCAAACAATCCCTTTATCCTTAATTTAATTAATTAATCATATGCTTTTTTTAATGAAGTGCTTGATC  
ACTTGCAAACATATATACATGTAGATGTACATATACATGTACACATACACATAAATATTATTGCAATTAAGTGAT  
CAAGTACAGACACAATAGGGGCCAGTTTTGTTAAGGATCAAAGAGACAACCACTTTGGGGAATTAGTATCAACT  
TACAATCCAAGTCCAAGTATCATCTTATAATCACTTTTTTCTACTATATTAAGATCTAATGAATTTGATTTCTTT  
TTTGAAGTTTTTTCTTGAACATCTGAGATTAGAAGTTTAAGATGACTTGACCCCAAACCTTTGTTTATGTAAGA  
ATTTTTAAACATAAAAGTGTGTTGTTCTGTTATGTTACCATAAATTTGATGTATATAGTGTCCAGATCCATTTAGA  
AATTTAATATTTATTAATAACTGAACTGTTTGTCTTCCCTTTGGTATATAGTCTCGCATATTATATTATAGCAGG  
CCAAGATAAAATTTGACAGCTCTTTAAGCCCATGCAGCAGTGGGTGAGATAACCCGTGGCAGTGACACGGG  
CAAATTGGCATTGTAATAAGCCCTGGGACCACCTCAACATGCGTAGCCTCTTGTCTTAAATGTACTCCCATGG  
CAGCATGGAGGAGGCAAGACCTGTGGGTCAATTTGAAGTGGCCTTACTTTGATTTTTAAACAAGAGACTCAGG  
GAAAGTACTAAACAAAATCTCTGATTTTACTTTTGTAGTTTTTGTGTTTACTGAGATGCTTTTGTAA  
AGGAAAATAATACTGTGACAGTTTAGTAATCTACAGATTCTTAATATTTCTCCATCATGGCCTTTTACTTCACA  
ATTTTCTGAAGTCTGAATTCATTAACAATTTTTTACCATTTAATCTCAAATGTTGTTTAACTGCTTTAAAT  
TCATATACGTAGAGTATTATAAACTGCAGAGATGAAAAATGTGTTTTCACGGGATTATATTGTGAAGTAACTA

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**FIGURE 1440B**

AGCCTACTTTTTGTGACTTATTTGTGATGCCTTGTTGATAAATATGTGTAATAAGTATGTTT



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**FIGURE 1441**

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTTAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAA  
GAAGACTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAAGCTAAAAAGCCCAAGAAGGGGAAGCCCCGTG  
CAGCCGCAACCCTGTCCITGTCAGAGGAATTGGCAGGTATTCCCGATCTGCCATGTATTCCAGAAAGGCCATGTA  
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA  
ACCAGTTGGTGGTGACAAGAACGGCGGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGA  
AGATGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAAAACCCTTCAGTCAGCACGTGAGAAAACGCGAGCCAG  
CATTACCCCCGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCT  
GGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCTCAATCGAGTTCCTCTATGAAGAACACACCAGAAATT  
TGTCATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAA  
GAAGAAGCAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGGGAATATGAGATTAC  
GGAGCAGCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTATCAAAAATCAAAGCTATTCTCAGCTCCA  
GGGCTAGTTGCGATCTGTGTTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTTCTAAATGTCTTAAGA  
ACCTAATTAAATAGCTGACTAC

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**FIGURE 1442**

GTTTTTAGTTTGTAGCTGCCTGGAGTGTTATTTTAAGAAAGCAGAAGCACCATCATTTCACACTCCTTATAGA  
TCACACACCTTAACCTGACTTTTTTTTGCTCCAGTTTTTTCAGAAGAAGTGAAGTCAAGATGAAGAACCATTGCT  
TTTCTGGGGAGTCCTGGCGGTTTTTATTAAGGCTGTTTCATGTGAAAGCCCAAGAAGATGAAAGGATTGTTCTTGT  
TGACAACAAATGTAAGTGTGCCCCGATTACTTCCAGGATCATCCGTTCTTCCGAAGATCCTAATGAGGACATTGT  
GGAGAGAAACATCCGAATTATTGTTCTCTGAACAACAGGGAGAATATCTCTGATCCCACCTCACCATTGAGAAC  
CAGATTTGTGTACCATTGTTCTGACCTCTGTAAAAAATGTGATCCTACAGAAGTGGAGCTGGATAATCAGATAGT  
TACTGCTACCCAGAGCAATATCTGTGATGAAGACAGTGCTACAGAGACCTGCTACACTTATGACAGAAACAAGTG  
CTACACAGCTGTGGTCCCACTCGTATATGGTGGTGAGACCAAAATGGTGGAACAGCCTTAACCCAGATGCCTG  
CTATCCTGACTAATTTAAGTCATTGCTGACTGCATAGCTCTTTTTCTTGAGAGGCTCTCCATTTTGATTGAGAAA  
GTTAGCATATTTATTACCAATGAATTTGAAACCAGGGCTTTTTTTTTTTTTTGGGTGATGTAAAACCAACTCCCT  
GCCACCAAAATAATTAAATAGTCACATTGTTATCTTTATTAGGTAATCACTTCTTAATTATATGTTCACTCT  
AAGTATCAAAATCTTCCAATTATCATGCTCACCTGAAAGAGGTATGCTCTCTTAGGAATACAGTTTCTAGCATT  
AACAAATAAACAGGGGAGAAAATAAACTCAAGGACTGAAATCAGGAGGTGTAATAAAATGTTCTCGCATT  
CCCCCGCTTTTTTTTTTTTTTTGACTTTGCCTTGGAGAGCCAGAGCTTCCGATTTTCTTTACTATTCTTTTT  
AAAAAAGTTTCACTGTGTAGAGAACATATATGCATAAACATAGGTCAATTATATGTCTCCATTAGAAAAATAAT  
AATTGGAAAACATGTTCTAGAACTAGTTACAAAAATAATTTAAGGTGAAATCTCTAATATTTATAAAAGTAGCAA  
AATAAATGCATAATTAAATATATTTGGACATAACAGACTTGAAGCAGATGATACAGACTTCTTTTTTTCATAA  
TCAGGTTAGTGTAAGAAATTGCCATTTGAAACAATCCATTTGTAAGTGAACCTTATGAAATATATGTATTTTAT  
GGTACGTATTCTCTAGCACAGTCTGAGCAATTAAATAGATTCATAAGCATA

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**FIGURE 1443**

GGTGCTGCAAGACTCTCTGGTAGAAAAATGAAGAGGGTCCTGGTACTACTGCTTGCTGTGGCATTGACATGCT  
TTAGAGAGAGGCCGGGATTATGAAAAGAATAAAGTCTGCAAGGAATTCTCCCATCTGGGAAAGGAGGACTTCACA  
TCTCTGTCTACTAGTCCTGTACAGTAGAAAATTTCCAGTGGCACGTTTGAACAGGTGAGCCAACTTGTGAAGGAA  
GTTGTCTCCTTGACCGAAGCCTGCTGTGCGGAAGGGGCTGACCTGACTGCTATGACACCAGGACCTCAGCACTG  
TCTGCCAAGTCTGTGAAAGTAATTCTCCATTCCCCGTTTACCAGGCACTGCTGAGTGTCTGCACCAAAGAGGGC  
CTGGAACGAAAGCTCTGCATGGCTGCTCTGAAACACCAGCCACAGGAATTCCCTACCTACGTGGAACCCACAAAT  
GATGAAATCTGTGAGGCGTTGAGGAAAGATCCAAAGGAATATGCTAATCAATTTATGTGGGAATATTCCACTAAT  
TACGGACAAGCTCCTCTGTCACTTTTAGTCAGTTACACCAAGAGTTATCTTTCTATGGTAGGGTCTCTGTGTACC  
TCTGCAAGCCCAACTGTATGCTTTTTGAAAGAGAGACTCCAGCTTAAACATTTATCACTTCTCACCACCTCTGTCA  
AATAGAGTCTGCTCACAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCAGCAATCTCATAAAGTTAGCCCCAA  
AAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGATATTACTAACATCCTCTCCAAATGCTGT  
GAGTCTGCCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAACACACAGTAAACTCTGTGACAATTTATCCACA  
AAGAATTCTAAGTTTGAAGACTGTTGTCAAGAAAAAACAGCCATGGACGTTTTTGTGTGCACTTACTTCATGCCA  
GCTGCCCAACTCCCCGAGCTTCCAGATGTAGAGTTGCCCAACAAACAAAGATGTGTGTGATCCAGGAAACACCAAA  
GTCATGGATAAGTATACATTTGAACTAAGCAGAAGGACTCATCTTCCGGAAGTATTCCTCAGTAAGGTACTTGAG  
CCAACCCTAAAAAGCCTTGGTGAATGCTGTGATGTTGAAGACTCAACTACCTGTTTTAATGCTAAGGGCCCTCTA  
CTAAGAAGGAACTATCTTCTTTTCATTGACAAGGGACAAGAACTATGTGCAGATTATTCAGAAAATACATTTACT  
GAGTACAAGAAAAAACTGGCAGAGCGACTAAAAGCAAAATTGCCTGATGCCACACCCACGGAAGTGGCAAAGCTG  
GTTACAAGCACTCAGACTTTGCCTCCAAGTCTGTTCCATAAACTCACCTCCTCTTTACTGTGATTCAGAGATT  
GATGCTGAATTGAAGAATATCCTGTAGTCTGGAAGCATGTTTATTAAGTTTGACCAGAGTTGGAGCCACCCAGGG  
GAATGATCTCTGATGACCTAACCTAAGCAAAACCACTGAGCTTCTGGGAAGACAACCTAGGATACTTTCTACTTTT  
TCTAGCTACAATATCTTCATACAATGACAAGTATGATGATTGCTATCAAAATAAATTGAAATATAATGCAAAAC  
AT

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**FIGURE 1444**

MKRVLVLLLLAVAFGHALERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLEACC  
AEGADPDCYDTRTSALSAKSCESNSPFPVHPGTAECCTKEGLERKLCMAALKHQPQEFPTYVEPTNDEICEAFRK  
DPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSSLTTLNVRVCSQYAA  
YGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNLSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCC  
QEKAMDV FVCTYFMFAAQLPELDPVELPTNKDVCDPGNTKVMKDYTFELSRRTLPEVFLSKVLEPTLKS LGEC  
CDVEDSTTCFNAKGPLLKKELSSFIDKGQELCADYSENTFTEYKKKLAERLKAKLPDATPTELAKLVNKHSD FAS  
NCCSINSPPLYCDSEIDAELKNIL

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**FIGURE 1445**

AGCTTTTCTCTTCTGTCAACCCACACGCCTTTGGCACAATGAAGTGGGTAACCTTTATTTCCCTTCTTTTTCTC  
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT  
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCCATTTGAAGAT  
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATGTGAC  
AAATCACTTCATACCCTTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAAATGGCT  
GACTGCTGTGCAAAACAAGAACCTGAGAGAAATGAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTCCCC  
CGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAGACATTTTTGAAAAAATAC  
TTATATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCGGAACCTCCTTTTCTTTGCTAAAAGGTATAAAGCT  
GCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAGCTCGATGAACCTCGGGATGAA  
GGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAAATTTGGAGAAAGAGCTTTCAAAGCA  
TGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAGAAGTTTCCAAGTTAGTGACAGATCTT  
ACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT  
ATCTGTGAAAATCAAGATTTCATCTCCAGTAACTGAAGGAATGCTGTGAAAAACCTCTGTTGAAAAATCCCAC  
TGCATTGCCGAAGTGGAAAATGATGAGATGCCCTGCTGACTTGCCCTTCACTTAGCTGCTGATTTTGTGAAAGTAAG  
GATGTTTGCAAAAACATATGCTGAGGCAAAGGATGTCTTCTCGGCATGTTTTGTATGAATATGCAAGAAGGCAT  
CCTGATTACTCTGTCTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT  
GCAGATCCTCATGAATGCTATGCCAAAGTGTTTCATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATC  
AAACAAAATGTGTAGCTTTTTGAGCAGCTTGGAGAGTACAAATTCAGAATGCGCTATTAGTTCGTTACACCAAG  
AAAGTACCCCAAGTGTCAACTCCAACCTCTTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAAATGTTGT  
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCCTGAACCAAGTTATGTGTGTTG  
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT  
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAAATGCTGAAACATTCACCTTCCATGCAGATATA  
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAACTGCACCTTGTGAGCTCGTGAAACACAAGCCCAAG  
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTTCGAGCTTTGTAGAGAAGTGCTGCAAGGCTGACGAT  
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAATGTTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCAC  
ATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAGCTTATTCATCTGTTTTTC  
TTTTTCGTTGGTGTAAGCCAACACCCTGTCTAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT  
GCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTTCAAAGATGTGTGCTAT  
CCTGAAAATCTGTAGGTTCTGTGGAAGTTCCAGTGTTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTC  
TTGTGGGCTAATTAATAAATCATTAATACTCTTCTAAGTT

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**FIGURE 1446**

TCCATATTGTGCTTCCACCCTGCCAATAACAAAATAACTAGCAACCATGAAGTGGGTGGAATCAATTTTTTTAA  
TTTTCTACTAAATTTTACTGAATCCAGAACACTGCATAGAAATGAATATGGAATAGCTTCCATATTGGATTCTT  
ACCAATGTACTGCAGAGATAAGTTTAGCTGACCTGGCTACCATATTTTTTGCCAGTTTGTTCAAGAAGCCACTT  
ACAAGGAAGTAAGCAAAATGGTGAAAGATGCATTGACTGCAATTGAGAAACCCACTGGAGATGAACAGTCTTCAG  
GGTGTTTAGAAAACCAGCTACCTGCCCTTTCTGGAAGAACTTTGCCATGAGAAAGAAATTTGGAGAAGTACGGAC  
ATTCAGACTGCTGCAGCCAAAGTGAAGAGGGAAGACATAACTGTTTTCTTGACACAAAAAGCCCACTCCAGCAT  
CGATCCCACTTTTCCAAGTTCAGAACCTGTCAAGCTGTGAAGCATATGAAGAAGACAGGGAGACATTCATGA  
ACAAATTCATTTATGAGATAGCAAGAAGGCATCCCTTCTGTATGCACCTACAATTTCTTTGGGCTGCTCGCT  
ATGACAAAATAATTCATCTTGTGCAAGCTGAAATGCAGTTGAATGCTTCCAAACAAAGGCAGCAACAGTTA  
CAAAAGAATTAAGAGAAAGCAGCTTGTTAAATCAACATGCATGTGCAGTAATGAAAAATTTGGGACCCGAAGTT  
TCCAAGCCATAACTGTTACTAACTGAGTCAGAAGTTTACCAAAGTTAATTTTACTGAAATCCAGAACTAGTCC  
TGGATGTGGCCCATGTACATGAGCACTGTTGCAGAGGAGATGTGCTGGATTGTCTGCAGGATGGGGAAAAATCA  
TGTCTACATATGTTCTCAACAAGACACTCTGTCAAAACAAAATAACAGAATGCTGCAAACTGACCACGCTGGAAC  
GTGGTCAATGTATAATTATGCAGAAAATGATGAAAAACCTGAAGGTCTATCTCCAAATCTAAACAGGTTTTTAG  
GAGATAGAGATTTTAACCAATTTTCTTCAGGGGAAAAAATATCTTCTTGGCAAGTTTGTTCATGAATATCAA  
GAAGACATCCTCAGCTTGCTGTCTCAGTAATTCTAAGAGTTGCTAAAGGATACCAGGAGTTATTGGAGAAGTGTT  
TCCAGACTGAAAACCCCTCTTGAATGCCAAGATAAAGGAGAAGAAGATTACAGAAATACATCCAGGAGAGCCAAG  
CATTGGCAAAGCGAAGCTGCGGCCTCTTCCAGAACTAGGAGAATATTACTTACAAAATGCGTTTCTCGTTGCTT  
ACACAAAGAAAGCCCCCAGCTGACCTCGTCGGAGCTGATGGCCATCACCAGAAAAATGGCAGCCACAGCAGCCA  
CTTGTGTCCTCACTCAGTGAGGACAACTATTGGCCTGTGGCGAGGGAGCGGCTGACATTATTATCGGACACTTAT  
GTATCAGACATGAAATGACTCCAGTAAACCCCTGGTGTGGCCAGTGTGCACTTCTTCATATGCCAACAGGAGGC  
CATGCTTCAGCAGCTTGGTGGTGGATGAAACATAIGTCCCTCCTGCATTCTCTGATGACAAGTTTCAATTTCCATA  
AGGATCTGTGCCAAGCTCAGGGTGTAGCGCTGCAACGATGAAGCAAGAGTTTCTCATTAACTTGTGAAGCAAA  
AGCCACAAATAACAGAGGAACAACCTTGAGGCTGTCTGAGATTTCTCAGGCCTGTTGGAGAAATGCTGCCAAG  
GCCAGGAACAGGAAGTCTGCTTTGCTGAAGAGGGACAAAACTGATTTCAAAACTCGTGCTGCTTTGGGAGTTT  
AAATTACTTCAGGGGAAGAGAAGACAAAACGAGTCTTTCATTGCGGTGTAAGTCTTTCTTTTAAATTTAACTGAT  
TTAACACTTTTTGTGAATTAATGAAATGATAAAGACTTTTATGTGAGATTTCCTTATCACAGAAATAAAATATCT  
CCAAATG

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**FIGURE 1447**

MKWVESIFLIFLLNFTESRTLHRNEYGSIILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIE  
KPTGDEQSSGLENQLPAFLEELCHEKEILEKYGHSDCCSQSEGRHNCF LAHKKPTPASIPLFQVPEPVTSC EA  
YEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACA  
VMKNFGTRTFQAITVTKLSQKFTKVNFTETIQKLVLDDVAHVHEHCCRGDVLDCLODGEKIMSYICSQQDTLSNKIT  
ECCKLTTLERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAK  
GYQELLEKCFQTENPLECQDKGEEELQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTSSELMAI  
TRKMAATAATCCQLSQKLLACGEGAADIIIGHLCIRHEMTPVNPVGVCCTSSYANRRPCFSSLVVDETYVPPA  
FSDDKFIFHKDLCQAQGVALQTMKQEFNLINLVKQKPQITEEQLEAVIADFSGLLEKCCQGEQEVCF AE EGQKLI  
SKTRAALGV

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**FIGURE 1448A**

TCAC TTGCCTGATATTTCCAGTGT CAGAGGGACACAGCCAACGTGGGGTCCCTTCTAGGCTGACAGCCGCTCTCC  
AGCCACTGCCGCGAGCCCGTCTGCTCCCGCCCTGCCCGTGCACCTCTCCGCAGCCGCCCTCCGCCAAGCCCCAGCG  
CCCGCTCCCATCGCCGATGACCGCGGGGAGGAGGATGGAGATGCTCTGTGCCGGCAGGGTCCCTGCGTGCTGCT  
CTGCCTGGGTTTCCATCTTTCTACAGGCAGTCCCTCAGTACAACGTGTGATTCCATCATGTATCCCAGGAGAGTCCAG  
TGATAACTGCACAGCTTTAGTT CAGACAGAAGACAATCCACGTGTGGCTCAAGTGTCAATAACAAAGTGTAGCTC  
TGACATGAATGGCTATTGTTTG CATGGACAGTGCATCTATCTGGTGGACATGAGTCAAACTACTGCAGGTGTGA  
AGTGGGTTTACTGGTGTCCGATGTGAACACTTCTTTTAACCGTCCACCAACCTTTAAGCAAAGAATATGTGGC  
TTTGACCGTGATTCTTATTATTTTGTTCCTTATCAGAGTCGTGGTCCACATATTATTCTGCAGATGGTACAG  
AAATCGAAAAAGTAAAGAACCAAAGAAGGAATATGAGAGAGTTACCTCAGGGGATCCAGAGTTGCCGCAAGTCTG  
AATGGCGCCATCAAACCTTATGGGCAGGGATAACAGTGTGCCTGGTTAATATTAATATTTCCATTTTATTAAAT  
ATTTATGTTGGGTCAAGTGT TAGGTCAATAACACTGTATTTAATGTACTTGAAAAATGTTTTATTTTGT  
ATTTTGTACAGACTATTTGCTAATGTATAATGTGCAGAAAATATTTAATATCAAAAGAAAATTGATATTTTATA  
CAAGTAATTTCTGAGCTAAATGCTTCATTGAAAGCTTCAAAGTTTATATGCCTGGTGCACAGTGTCTAGAAGTA  
AGCAATTTCCAGGTCATAGCTCAAGAATTGTTAGCAAATGACAGATTTCTGTAAGCCTATATATATAGTCAAATC  
GATTTAGTAAGTATGTTTTTATGTTCTCAAATCAGTGATAATTGGTTTGACTGTACCATGGTTTGATATGTAG  
TTGGCACCATGGTATCATATATTAACAATAATGCAATTAGAATTGGGAGAAGCAAATATAGGTCCTGTGTTA  
AACACTACACATTTGAAACAAGCTAACCCCTGGGGAGTCTATGGTCTCTCACTCAGGTCTCAGCTATAATTCTGT  
TATATGAGGGGCACTGGACAGTTCCTATGCCAATCAGGACTCCTACAGGTACTAGTCACTCATCTACCAGATT  
CTGCCTATGTAAATGAATTGAAAAACAATTTCTGTAATCTTTTATTTAAGTAGTGGGCATTTTCATAGCTTCAC  
AATGTTCTTTTTTGTATATTACAACATTTATGTGAGGTAATTATTGCTCAACAGACAATTAGAAAAAGTCCAC  
ACTTGAAGCCTAAATTTGTGCTTTTAAAGATATTTTAGACTATTTCTTTTATAGGGGCTTTGCTGAATTTCTA  
ACATTAAATCAGAGCCCAAAATTTGATGGACTAATTATTATTTTAAATATATGAAGACAATAATTCTACATGTT  
GTCTTAAGATGGAAATACAGTTATTTTCATCTTTTATTCAAGGAAGTTTAACTTTAATACAGCTCAGTAAATGGC  
TTCTTCTAGAATGTAAAGTTATGTATTTAAAGTTGTATCTTGACACAGGAAATGGGAAAAACTTAAAAATTAAT  
ATGGTGTATTTTCCAAATGAAAAATCTCAATTGAAAGCTTTTAAATGTAGAACTTAAACACACCTTCCTGTG  
GAGGCTGAGATGAAACTAGGGCTCATTTTCTTGACATTTGTTTATTTTGGGAAGAGACAAAGATTTCTTCTGC  
ACTCTGAGCCCATAGGTCTCAGAGAGTTAATAGGAGTATTTTGGGCTATTGCATAAGGAGCCACTGCTGCCACC  
ACTTTTGGATTTTATGGGAGGCTCCTTCATCGAATGCTAAACCTTTGAGTAGAGTCTCCCTGGATCATAACCAG  
GTCAGGGAGGATCTGTTCTTCTCTACGTTTATCCTGGCATGTGCTAGGGTAAACGAAGGCATAATAAGCCATGG  
CTGACCTCTGGAGCACCAGGTGCCAGGACTTGTCTCCATGTGTATCCATGCATTATATACCCTGGTGCAATCACA  
CGACTGTATCTAAAGTCTTGGCCCTGGCCCTTACTATTAGGAAAAATAACAGACAAAAACAAGTAAATATATAT  
GGTCATATACATATTGTATATATATTATATACAAACATGTATGTATACATGACCTTAATGGATCATAGAATTGC  
AGTCATTTGGTGTCTGTCTAACCATTATATAAACTTAAAAACAAGAGAAAAAGAAAATCAATTAGATCTAAAC  
AGTTATTTCTGTTTCTTATTTAATACAGCTGAAGTCAAATATGTAAGAACACATTTTAAATACTCTACTTACAG  
TTGGCCCTCTGTGGTTAGTTCCACATCTGTGGATTCAACCAACCAAGGACGGAAATGCTTAAAAATAATACAA  
CAACAACAAAAAATACATTATAACAACATTTTACTTTTTTTTTTCTTTTGGAGATGGAGTCTCGCTCTGTTGC  
CCAGGTTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAACCTCACCTCCCGGGTTCAAGAGATCCTCCTGCCTC  
AGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCCACCATGCCAGCTAATTTTTGTATTTTGTAGAGGCGGG  
GTTTCACCATGTTGGCCAGGATGGTCTCAATCTCCTAACCTTGAGATCCACCCTCCACAGCCTCCCAAACCTGCTG  
GGATTACAGGTGTGAGCCACCGCACGTAGCATTACATTAGGTATTACAAGTAATGTAAAGATGATTTAAGTATA  
CAGGAGGATGTGAATAGGTTATATGCAAGCACTATGCCCTTTTATATAAGTGACTTGAACATCTGTGCCCGATT  
TAGTATGTGCAGGGGGCGATCTGGGAATCAGTCCCTGTGGATACCAAGGTACAACGTGATTTTATTAACGCTTA  
CTAGATGTGAGGAGATCTGAATATTTTCAGTGATCTTGGCTGTTTCAAAAAATCTATTGACTTTTCAATAAAT  
CAGCTGCAATCCATTATTTTCATTTACAAAAGATTTATTGTAAAGCATCTCAATCTTGGTTTGTGAGTTTATCTTA  
AGCATGTCAATTCATAAAAAACAAGTCAATTTTGTATTTTTCATCTTTAAGAAATGCTTAAAAAGCTAATCCCTAA  
AATAGTTAGATCTTTGTAAATGCATATTAATAATAAAGATGACCCACATTACTTTTTATGGGTGAAAATAAGA  
CAAAAATAATAGTTTGTAGGATGGTGTGCTGAGTAAACATAAAAACTGATTTGCTCTCAGCTGATGTGCTCTGT  
ACACAGTGGGAAGATTTTAGTTACACTTAGTCTAACCCCCATTTTACAGATTTCTCACTATATATATTCTA



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**FIGURE 1448B**

GAAGGGGCTATGCATATTCAATGTATTGAGAACCAAAGCAACCACAAATGCATAAATGCATAATTTATGGTCTTC  
AACCAAGGCCACATAATAACCCAGTTAACTTACTCTTTAACCAGGAATATTAAGTTCTATAACTAGTACTCAAGG  
TTTAACCTTAAAATTAAGATTTTCCTTAACCTTAACCTTAAAATTGATATTATATTAAACATACATAATACAATGT  
AACTCCACTGTTCTCCTGAATATTTTTTGCTCTAATCTCTCTGCCGAAAGTCAAAGTGATGGGAGAATTGGTATA  
CTGGTATGACTACGTCTTAAGTCAGATTTTTATTTATGAGTCTTTGAGACTAAATCAATCACCACCAGGTATCA  
AATCAACTTTTATGCAGCAAATATATGATTCTAGTGTCTGACTTTTGTTAAATTCAGTAATGCAGTTTTTAAAAA  
CCTGTATCTGACCCACTTTGTAATTTTTGCTCCAATATCCATTCTGTAGACTTTTGAAAAAAAGTTTTTAATTT  
GATGCCCAATATATTCTGACCGTTAAAAAATCTTGTTTCATATGGGAGAAGGGGAGTAATGACTTGTACAAACA  
GTATTTCTGGTGTATATTTTAATGTTTTTAAAAAGAGTAATTCATTTAAATATCTGTTATTCAAATTTGATGAT  
GTTAAATGTAATATAATGTATTTTCTTTTTATTTTGCACCTCTGTAATTGCACTTTTTAAGTTTGAAGAGCCATTT  
TGGTAAACGGTTTTTTATTAAAGATGCTATGGAACATAAAGTTGTATTGCATGCAATTTGAAGTAACTTATTTGAC  
TATGAATGTTATCGGATTACTGAATTGTATCAATTTGTTTGTGTTCAATATCAGCTTTGATAATTGTGTACCTTA  
AGATATTGAAGGAGAAAATAGATAATTTACAAGATATTATTAATTTTTATTTATTTTCTTGGAATTGAAAAAA  
ATTGAAATAAATAAAAATGCATTGAACATCTTGCAATCAAATCTTCACTGAC

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**FIGURE 1449**

CCCGCGAGCGGACGCGGCAGCGCCTCTGTCTCGCTTTTCTTATTTTCCCCCTTTCCCTTTCTTTTTTTTT  
TTTCTTTTCTTTTCTCCCCTCCCCCTTTTACCATTTCCTTCGGAGGCGCTTTCCCGGGCAGGGGCAGAGCC  
GGTCTCACCCCCCGCTCTCCCCGGCCCCCGCCGCTATGGCGAGAGGGAGCCCCCTCCAACCGGGCTCGAG  
CGGCGGCGGCTCAGGCCGGGGGTTCATCATGGAATAATTGCTGACCGACCCAGCGGCCGAGCCGTGCGTCCC  
GCTCGAGCGCCAGCGCCCCGCGCCCCGCGCCCCCGATCCGCTTCCCTTTCTCCCTCCTCAGTTGGCCGAGTCGTC  
CCGCGCGCACCGCTCCGCGCGCCTATGAGAATGAGGTGGTAACGGGCCCCGGATGACCCCGCGTCACCACTGT  
GAGGCCTACAGCTCTGCCGGGAGGAGGAGGAGGAGGAAGAGGAGGAGAAGGTAGCTACAGCAAGCTGGGTAGCA  
GGCAGATCCAAAGGATATCATGAAGTTTCCAGGGCCTTTGGAAAAACCAGAGATTGTCTTCTGTGGAAAAGGC  
AATCACTAGGGAAGCACAGATGTGGAAAGTGAATGTGCGGAAAATGCCTTCAAATCAGAATGTTTCTCCATCCCA  
GAGAGATGAAGTAATTCAATGGCTGGCCAACTCAAGTACCAATTCAACCTTTACCCAGAAACATTTGCTCTGGC  
TAGCAGTCTTTTGGATAGGTTTTTAGCTACCGTAAAGGCTCATCCAAAATACTTGAGTTGTATTGCAATCAGCTG  
TTTTTTCCTAGCTGCCAAGACTGTTGAGGAAGATGAGAGAATTCCAGTACTAAAGGTATTGGCAAGAGACAGTTT  
CTGTGGATGTTTCTCATCTGAAATTTTGAGAATGGAGAGAATTATTCTGGATAAGTTGAATTGGGATCTTCACAC  
AGCCACACCAATTGGATTTTCTTCATATTTTCCATGCCATTGCAGTGTCAACTAGGCCTCAGTTACTTTTCAGTTT  
GCCCCAATTGAGCCCATCTCAACATTTGGCAGTCCTTACCAAGCAACTACTTCACTGTATGGCCTGCAACCACT  
TCTGCAATTCAGAGGATCCATGCTTGCTCTGGCCATGGTTAGTCTGGAATGGAGAACTCATTCTGATTGGCT  
TTCTCTTACAATTGAACTGCTTCAGAAAGCACAGATGGATAGCTCCAGTTGATCCATTGTCGGGAGCTTGTGGC  
ACATCACCTTTCTACTCTGCAGTCTTCCCTGCCTCTGAATTCCGTTTATGTCTACCGTCCCCCTCAAGCACACCTT  
GGTGACCTGTGACAAAGGAGTGTTCAGATTACATCCCTCCTCTGTCCCAGGCCAGACTTCTCCAAGGACAACAG  
CAAGCCAGAAGTGCCAGTCAGAGGTACAGCAGCCTTTTACCATCATCTCCAGCTGCCAGTGGGTGCAAGCAGAC  
CTCTACTAAACGCAAAGTAGAGGAAATGGAAGTGGATGACTTCTATGATGGAATCAAACGGCTCTATAATGAAGA  
TAATGTCTCAGAAAATGTGGGTCTGTGTGTGGCACTGATTTATCAAGACAAGAGGGACATGCTTCCCTTGTCC  
ACCTTTGCAGCCTGTTTCTGTGATGTAGTTTCAACAAGTGCTACCTTTGAGTGTAATAAGGTAGACTACTTG  
GGAATGAGAACATGCAAAATCAGGAAAGGCTGTAGAAGGAAATATACCTTAACAGGCTGATTTGGAGTGAGCCAG  
AAAAAAAAAATAAACTCTCATTATTTGTGTGGCTAATTATAATTCAGCGTTATTTAAGCACATAAAGACCAAAA  
AAAAAAAAAAAAAAAA

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**FIGURE 1450**

MKFFGPLENQRLSFLLEKAITREAQMWKVNVKMPNSQNVSPQRDEVIQWLAKLKYQFNLYPETFALASSLLDR  
FLATVKAHPKYLSCIAISCFFLAAKTVEEDERIPVLKVLARDSFCGCSSEILRMERIILDKLNWDLHTATPLDF  
LHIFHAIIVSTRPQLLFSLPKLSPSQHLAVLTKQLLHCAQCNQLLQFRGSMLALAMVSLEMEKLIPDWLSLTIEL  
LQKAQMDSSQLIHCRELVAAHHLSTLQSSPLNSVYVYRPLKHTLVTCDKGVFRLHPSSVPGPDFSKDNSKPEVPV  
RGTAIFYHHLPAASGCKQTSTKRKVEEMEVDIFYDGIKRLYNEDNVSENVGSGTDLRSRQEGHASPCPPLQPV  
VM

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**FIGURE 1451**

CCTGGACTCAGAGCTCAAGTCTGAACTCTACCTCCAGACAGAATGAAGTTCATCTCGACATCTCTGCTTCTCATG  
CTGCTGGTCAGCAGCCTCTCTCCAGTCCAAGGTGTTCTGGAGGTCTATTACACAAGCTTGAGGTGTAGATGTGTC  
CAAGAGAGCTCAGTCTTTATCCCTAGACGCTTCATTGATCGAATTCAAATCTTGCCCCGTGGGAATGGTTGTCCA  
AGAAAAGAAATCATAGTCTGGAAGAAGAACAAGTCAATTGTGTGTGTGGACCCCTCAAGCTGAATGGATACAAAGA  
ATGATGGAAGTATTGAGAAAAAGAAGTTCTTCAACTCTACCAGTTCAGTGTTTAAGAGAAAGATTCCCTGATGC  
TGATATTTCCACTAAGAACACCTGCATTCTTCCCTTATCCCTGCTCTGGATTTTAGTTTTGTGCTTAGTTAAATC  
TTTTCCAGGAAAAAGAACTTCCCCATACAAATAAGCATGAGACTATGTAAAAATAACCTTGAGAAGCTGATGGG  
GCAAACTCAAGCTTCTTCACTCACAGCACCCCTATATACACTTGGAGTTTGCATTCTTATTCATCAGGGAGGAAAG  
TTTCTTTGAAATAGTTATTTCAGTTATAAGTAATACAGGATTATTTTGATTATATACTTGTGTTTAAATGTTTAA  
AATTTCTTAGAAAACAATGGAATGAGAATTTAAGCCTCAAATTTGAACATGTGGCTTGAATTAAGAAGAAAATTA  
TGGCATATATTAAAAGCAGGCTTCTATGAAAGACTCAAAAAGCTGCCTGGGAGGCAGATGGAAGCTTGAGCCTGTC  
AAGAGGCAAAGGAATCCATGTAGTAGATATCCTCTGCTTAAAACTCACTACGGAGGAGAATTAAGTCCTACTTT  
TAAAGAATTTCTTTATAAAATTTACTGTCTAAGATTAATAGCATTCTGAAGATCCCCAGACTTCATAGAATACTCA  
GGGAAAGCATTAAAGGGTGATGTACACATGTATCCTTTACACATTTGCCTTGACAAACTTCTTTCACTCACAT  
CTTTTTCACTGACTTTTTTTGTGGGGGGCGGGGCCGGGGGACTCTGGTATCTAATTCTTTAATGATTCCTATAA  
ATCTAATGACATTCAATAAAGTTGAGCAAACATTTTACTT

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**FIGURE 1452**

ATGGTTTATCAGACATCACTTTGTTCTTGTTCTGTAAACATCCGAGTGCCCAACAGACATTTTGCTGCTGCTACA  
AAGTCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAACACCAGATGAGAAAAAGATGAAATAGAAAAATA  
AAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAACGCTTATACCCGAGACAGATATAT  
GAGGTGGAGAAAGCTGTTCACTTACTTAAGAAATTTCAAATTCTTGACTTTACTAGTCCAAAGCAAAGTGTTTAT  
CTTGATTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTACCAAGTGTTCTTAGTTTGCCA  
TACCCATTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAGGTCAAATAGCGGAAGAA  
AATGGAGCTGCATTGTCAGGAGGCACTAGTCTGATACAGAAGATTTGGGATGATGAAATTGTTGCAGACTTTTAC  
GTAGCTGTTCCAGAAATAATGCCTGAACTTAATCGATTAAAGGAAGAACTGAATAAAAAATATCCAAAGCTTTCT  
CGAAATTCCATTGGCCGTGACATCCCCAAATGCTTGAATTATTTAAAAATGGACATGAAATTAAGGTAGATGAA  
GAAAGGGAGAACTTTCTCCAGACCAAATAGCAACATTGGATATGTCAAGTGACCAGATAGCTGCCAATCTGCAA  
GCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTACGTGCTTTCCTTCGTAGT  
TCAACAAGTGAAGGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAAAATGAAGAAAGTGAAAAA  
GAAGATGCCTAA

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**FIGURE 1453**

GTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCGCTGCAATCCGTAGAGGAACCCGCCGCCGAGCC  
ACCATCATGCCTGGGCACTTACAGGAAGGCTTCGGCTGTGTGGTCACCAACCGATTTCGACCAGTTATTGACGAC  
GAATCGGACCCCTTCGAGGTGCTGAAGGCAGCGGAGAACAAGAAAAAGAGCCGGCAGGGGTGGCGTTGGGGGC  
CCTGGGGCCAAGAGCGCAGCTCAGGCGGCGGCCAGACCAACTCCAACGCGGCAGGCAAACAGCTGCGCAAGGAG  
TCCCAGAAAGACCGCAAGAACCCGCTGCCCCGCAGCGTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCCGCCC  
GTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTCAGGGTGAGGGGAAAATA  
ATTGATAGAAGACCAGAAAGGCAACCACCTTGTGAACGAAGATTGAAAAGCCACTTGAAGAAAAGGGTGAAGGA  
GGCTTAATTTTCAGTTGATAGACCGATTATTGACCGACCTATTTCGAGGTCGTGGTGGTCTTGGAAGAGGTCGAGGG  
GGCGGTGGACGTGGAATGGGCCGAGGAGATGGATTGATTCTCGTGGCAAACGTGAATTTGATAGGCATAGTGGA  
AGTGATAGATCTTCTTTTACATTACAGTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAAC  
TGGGGAACTGTCAAAGACGAATTAAGTACTGGATCAATCAAATGTGACTGACGAAACACCTGAAGGTGAAGAA  
CATCATCCAGTGGCAGACACTGAAAATAAGGAGAATGATGTTGAAGAGGTAAAAGAGGAGGGTCCAAAAGAGATG  
ACTTTGGATGAGTGAAGGCTATTCAAATAAGGACCGGGCAAAGTAGAATTTAATATCTGAAAACCAAATGAA  
GGTGCTGATGGGCAGTGAAGAAGGGATTTGTTTTATAAATCAAAGAGTGAAGAGGCTTATGCTGAGGATTCAG  
TTATGGACCATCATTTCCAGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGAGACCTTGCCC  
GCCCAGGACGTGGCGGCAGGGGAGGACAAGGTGGACATGGGCGTGGTGGGCGCCCAAACCGTGGCAGCAGGACCG  
ACAAGTCAAGTACTTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCAGTTCTGGCTTAAGTGGATGCCATAA  
GACAACCCCTGGTTCCTTCGTGAACCCCTTCTGTTCAAAGCTTTTGATGCTTAAGGATTCCAAATGACAAATTA  
AAAAAAAAGACTGTTCATTACATACCATTCACACCTAAAGACTGAATTTTATCTGTTTCAAAAATGAAGTTATCT  
CGCTACACAGAAGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTATTGGTAGCAGGGATGTTTTATAA  
TTTTAGAGATTATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAATATGCATTTCCAACTTGAAATA  
TAGGTGTGAACAGTGTGTACAGTTTAAAGCTTTCACTTCATTTGTGTTTTTAATTAAGGATTTAGAAGTTCCC  
CCAATTACAACTGGTTTTAAATATTGACATACTGGCTTTAATACATGCTTTGCATATTACACATGATCAACT  
GGGACATGTTAACTTTGATTTGTCAAATTTTATTCTGTGTGGAATACTAATATATGTATTTAACTTAGTTTT  
AATATTTTCATTTTGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTAT  
ATACAGAAATATCAGTACTTGAAGAA

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**FIGURE 1454**

MPGHLQEGFGCVVTNRFDQLFDDSDPFVFLKAAENKKKEAGRGVGGPGAKSAAQAAQTNSNAAGKQLRKESQ  
KDRKNPLPRSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQEGEKIIDRRPERQPPCERRFEKPLEEKGEGG

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**FIGURE 1455**

AGACGCAGTCTCCGTCGTTGACGTTAGCTTCGCTGCTAACGTTTTGTTTATGAGTTGCTAAAATGGTGGA  
AATGCTGCTCCGCCATTGGATGTGCTTCTCGCTGCTTGCCAAATTCGAAGTTAAAAGGACTGACATTTACGTAT  
TCCCCACAGATGAAAACATCAAAGGAAATGGGTATTAGCAATGAAAAGACTTGATGTGAATGCAGCCGGCATT  
GGGAGCCTAAAAAAGGAGATGTGTTGTGTTTCGAGGCACTTTAAAGACAGATTTTGACAGAAGTGCTCCAAATA  
TTAAACTGAAACCTGGAGTCATACCTTCTATCTTTGATTCTCCATATCACCTACAGGGGAAAAGAGAAAAA  
ACTTCATTGTAGAAAAA  
ACTTCACCCTCAAAACCGTTCCAGCCACTAACTACAATCACCATCTTGTTGGTGCTTCTCTCA  
GTATTGAAGAATTCCAATCCCAGTTCATTTTTGAACATAGCTACAGTGTAATGGACAGTCCAAAGAACTTAAGC  
ATAAATTAGATCATGTGATCGCGCAGCTAGAGGATACAAAGGAAAGTCTACGGAATGTTTTAGACCGAGAAAAAC  
GTTTTCAGAAATCATTGAGGAAGACAATCAGGGAATTAAGGATGAATGTCTGATCAGCCAAGAAAACAGCAAATA  
GACTGGACACTTTCTGTTGGGACTGTTGTCAGGAGAGCATAGAACAGGACTATATTTTCATGAAATAATTTTCATGT  
TACGTTCCACCTAAAAATGTGATTGGTACAAAATTTTTATAAAATCTCATTACCATCACTAAATAATATCCATCA  
TTTAAAGTGCTGCTTTGGATTCTCGGGACATTATGCATTATAGTTGTTATCCAAAGACTTTTTTGAAAAATATGC  
AGAAATTTGTGGTAATTATGTATTTGTGCTTTGTGACAATTATGTTTTATAGACCTACACTAGTGCCAGGTCACT  
ATTGTAAGATGTTAAATCTCAAGAAAAATTTACAGAGCTAAAAGAAATGATGTCAAATTAGTCACATTAAGCTAT  
AGTAGAAGGAATTGGACACTTCTCCAGATATTTGGCTTCAAAGGAGTACCTTTACTTACATGTGCTTTATGGTAA  
GTACATTGAATTTTACTTTAAATGCATTTTACTACAAAGCACAATTCATTTGTAATGCATATCCATCTTGGATT  
AATCCAAGGTGCTTTAGCTATCAGTAGTACCAAAGGATCTTTTTACAAGGCTTCTGTGGTATTGACTCTGAGAA  
TAACACATAGTGAAGATCTGTGGGCTTTTAAAAATTGTTACAGCCAATTTAAGAAGACCCCTCATGAAGTCTCAG  
TTTTCAGTACAGTACATCATTCCTCCTCACTAGGAGCAGCTTTGATGTAAACCAGAATAGCTTTAAAAAGACAAA  
AGGATCGTAGATCTGATTTTTTAAATGGTTGGTTGCTCTGACAGATCTGAACACTTTGCTTCATGACTATTTCTGTC  
ATAAAGGTATATGTTTTAAAAATCTGAATGGCAGTACTAGCTCTATACTTTTAATACTGCTTTGTATTTTATATGTA  
AAGTAGTATTGCTGACATTTTAAAAAATACAAAATACAAAAGAAACCATTAGAAAATTAATACTGTGGCTCTTC  
CAGTTGAAATAGGAATTGGAGAGAAAGGATTAGAATATTTTAATTAGGGGAGTAGATTATTGTCCAAAGGCTTTT  
ATTTAGAGAAACGGGTAATTTAAACAGCAGCTTTAGAATAGCTTCTTACTGAATATGCAAAGAATAATTCCTTG  
TTATTTTCTAATTGATCCAAGTCTCATAAATTTAGCTTTTGTGATAATTCCTTACCGAAAACAACTGAAATTGAG  
AGTCATAAATACTGTGGGTTAGAATAAAAAACCATTTGCCAAAGCAACACTCTACTTAGAAGCACATGTACATACA  
TGGACCTCATTACAGAAGTCCATGTTGTAGCAGTTAGAATTTGAGTATCAGCCATTTATTGTAGTAACAAAAATT  
GAATTGCATTTTGTGCTCAGTTGTTTATTGTAATTTTATTTTGTGTACATTAATATTAGTTAAGATATGGTCACT  
TGAATTTTTTGTATTTAAGAATTTTCTGTTTTAATGCATGTTATACTTTTATGTAGGATTCCAAACCTTCCCTCT  
AAATGGGATTTAACCACATCTGCGAGATCAGCGTTATGCTAAGAGGAAATCACTGAGGCCATATCTTTTACAA  
TCTGAAAAAAAAGTAGTAAAAAGGTAGTTAAAAA



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**FIGURE 1456**

CGGCGCCATTAAAGCGAGGAGGAGGCGAGAGCGGCCGCCGCTGCTGCTTATTCTTTTTTAGTGACGGGAGAGA  
GCGGGAGTGTGCGCCGCGGAGAGTGGGAGGCGAAGGGGGCAGGCCAGGGAGAGGCGCAGGAGCCTTTGCAGCCA  
CGCGCGCGCCTTCCCTGTCTTGTGTGCTTCGCGAGGTAGAGCGGGCGCGGGCAGCGGGGGATTACTTTGCTG  
CTAGTTTCGGTTTCGCGGCAGCGCGGGGTGTAGTCTCGGCGGCAGCGGCGGAGACACTAGCACTATGTCGGAGGAG  
CAGTTTCGGCGGGGACGGGGCGGCGGCGAGCGGCAACGGCGGGCGGTAGGCGGCTCGGCGGGCGAGCAGGAGGGAGCC  
ATGGTGGCGGGCAGACAGGGGGCAGCGGCGGCGGCGGGAAGCGGAGCCGGGACCGGGGGCGGAACCGCTCTGGA  
GGCACCGAAGGGGGCAGCGCCGAGTCGGAGGGGGCGAAGATTGACGCCAGTAAGAACGAGGAGGATGAAGGCCAT  
TCAAACCTCCTCCACGACACTCTGAAGCAGCGACGGCACAGCGGGAAGAATGGAATAATGTTTATAGGAGGCCTT  
AGCTGGGACACTACAAAGAAAGATCTGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAG  
TTAGATCCTATCACAGGGCGATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAATCGGAGAGTGTAGATAAGGTC  
ATGGATCAAAAAGAACATAAATTGAATGGGAAGGTGATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAG  
CCGGTTAAAAAATTTTTGTTGGTGGCCTTTCTCCAGATACACCTGAAGAGAAAATAAGGGAGTACTTTGGTGGT  
TTTGGTGAGGTGGAATCCATAGAGCTCCCCATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGCTTTATTACC  
TTTAAGGAAGAAGAACCAAGTGAAGAAGATAATGGAAAAGAAATACCACAATGTTGGTCTTAGTAAATGTGAAATA  
AAAGTAGCCATGTGAAGGAACAATATCAGCAACAGCAACAGTGGGGATCTAGAGGAGGATTTGCAGGAAGAGCT  
CGTGGAAGAGGTGGTGACCAGCAGAGTGGTTATGGGAAGGTATCCAGGCGAGGTGGTCATCAAAATAGCTACAAA  
CCATACTAAATTATTCATTGCACTTATCCCCAACAGGTGGTGAAGCAGTATTTTCCAATTTGAAGATTCAAT  
TGAAGGTGGCTCCTGCCACCTGCTAATAGCAGTTCAAACTAAATTTTTGTATCAAGTCCCTGAATGGAAGTATG  
ACGTTGGGTCCCTCTGAAGTTTAATTCTGAGTTCTCATTAAAGAAATTTGCTTTCATTGTTTTATTCTTAATT  
GCTATGCTTCAGAAATCAATTTGTGTTTTATGCCCTTTCCCCAGTATTGTAGAGCAAGTCTGTGTTAAAAGCCC  
AGTGTGACAGTGTATGATGTAGTAGTGTCTTACTGGTTTTTTAATAAATCCTTTTGTATAAAAATGTATTGGCT  
CTTTTATCATCAGAATAGGAAAAATTGTCATGGATTCAAGTTATTAAGCATAAGTTTGAAGACAGGCTTGCC  
GAAATTGAGGACATGATTAAATTCAGTGAAGTTTGAAATGTTTTAGCAAAATCTAATTTTGCCATAATGTG  
TCCTCCCTGTCCAAATTGGGAATGACTTAATGTCAATTTGTTTGGTGGTGTGTTTAAATAACTTCCTTATGTAG  
CCATTAAGATTTATATGAATATTTTCCCAAATGCCAGTTTTTGCTTAATATGTATTGTGCTTTTGAACAAAT  
CTGGATAAATGTGCAAAAGTACCCCTTGCACAGATAGTTAATGTTTTATGCTTCCATTAAATAAAAAGGACTTA  
AAATCTGTTAATTATAATAGAAATGCGGCTAGTTCAGAGAGATTTTAGAGCTGTGGTGGACTTCATAGATGAAT  
TCAAGTGTTGAGGGAGGATTAAAGAAAT

FIGURE 1457A

[illegible]

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**FIGURE 1457B**

CAGAAGGATTGACCATGCATACCCACATAGTTAGCACCAGCAACTTCAGTGAGACCTCTGCTTTCATGCCAGTTC  
TCAAAGTTGTTCTCAGCCAGGCCAATAAGCTGGGTGTC~~TAAA~~AGGACAGCTTCTCTTCCACTCAATATTGCCATT  
TTTCCAAAGAAACATGTTAAAAAATAATTATAAGACATGGACTAGTCCTCATTAGCATGTTTGCATAGCAACC  
AGTCAAGAGCATTATACACTATTTCTGCTGATATACTCACCTTAGAACTGCTCAGAACCCTGGTGCTTTATTTTGG  
TTTTAATCTTTTGTGGCAGTGATGATTTTCCTATTCTGCAAATAGTGTATTTCCTGGATTACACATAGTATGGT  
TTCCTGAAGTATTCTGATAAAATGTGTTTTTTTAAACCTCAATATACTTTTGTAGAAAAGGAGCATCTGGTTATGC  
ATAAAGCAGAGCTAAACTAAATTTCTTTCATGTCCTCCCTACTTCCTCAGTGTCAATCAGATTAAAGTGTGTAA  
TCCT

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**FIGURE 1458**

MKLKEVDRTAMQAWSPAQNHP IYLATGTSAQQLDATFSTNASLEIFELDLSDPSLDMKSCATFSSSHRYHKLIWG  
PYKMDSKGDVSGVLIAGGENGNI ILYDPSKIIAGDKEVVIAQNDKHTGVPVRALDVNIFQTNLVASGANESIYIW  
DLNNFATPMTPGAQTQPPEDISCIAWNROVQHILASASPSGRATVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDV  
ATQMVLA SEDDRLPVIQMWDLRFASSPLRVLENHARGILAIASMADEP LLLSCGKDAKILCSNPNTGEVLYELP  
TNTQWCFDIQWCPRNPAVLSAASF DGRISVYSIMGGSTDGLRQKQVDKLSSSFGNLDPFGTGQPLPPLQIPQQT  
QHSIVLPLKKPPKWIRRPVGASF SFGGKLVTFENVRMPSHQAEQQQQQHHVFISQVVTEKEFLSRSDQLQQA  
SQGFINYCQKKIDASQTEFEKNVWSFLKVNFE DSRGKYLELLGYRKEDLGKKIALALNKVDGANVALKDSQVA  
QSDGEESPAEEQLLGEHIKEEKEESEFLPSSGGTFNISVSGDIDGLITQALLTG NFESAVDLCLHDNRMA DAI  
LAIAGGQELLARTQKKYFAKSQSKITRLITAVVMKNWKEIVESCDLKNWREALAAVLT YAKPDEFSA LCDLLGTR  
LENEGDSL LQTQACLCYICAGNVEKLVACWTKAQDGSHP LSLQDLIEKVVILRKAVQLTQAMDTSTVGVLLAAKM  
SQYANLLAAQGSIAAALAF LPDNTNQPNIMQLRDRLCRAQGE PVAGHESPKIPYEKQQLPKGRPGPVAGHHQMPR  
VQTQQYYPHGENPPPPGFIMHG NVNPNASGQLPTSPGHMHTQVPPYPQPYQPAQPYPF GTGGSAMYRPQQPVA  
PPTSNAYPNTPYISSASSYTGSQLYAAQHQA SPTSSPATSFPPPPSSGASFQHG GPGAPPSSSAYALPFGTTG  
TLPAASELPASQRTGPQNGWNDPPALNRVPKKKKMPENFMPPVPITSPIMNPLGDPQS QMLQQQPSAPVPLSSQS  
SFPQPHLPGGQPFHGVQQPLGQTGMPPSF SKPNIEGAPGAPIGNTFQHVQSLPTKKITKKP IPDEHLILKTTFED  
LIQRCLSSATDPQTKRKLDDASKRLEFLYDKLREQTLSP TITSGLHNIARSIETRNYSEGLTMHTHIVSTSNFSE  
TSAFMPVLKVVL TQANKLG

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**FIGURE 1459**

GCAGAGCACAGCATCGTCGGGACCAGACTCGTCTCAGGCCAGTTGCAGCCTTCTCAGCCAAACGCCGACCAAGGA  
AAACTCACTACCATGAGAATTGCAGTGATTTGCTTTTGCCCTCCTAGGCATCACCTGTGCCATACCAGTTAAACAG  
GCTGATTCTGGGAAGTTCTGAGGAAAAGCAGCTTTACAACAAATACCCAGATGCTGTGGCCACATGGCTAAACCCCT  
GACCCATCTCAGAAAGCAGAATCTCCTAGCCCCACAGACCCCTTCCAAGTAAGTCCAACGAAAGCCATGACCACATG  
GATGATATGGATGATGAAGATGATGATGACCATGTGGACAGCCAGGACTCCATTGACTCGAACGACTCTGATGAT  
GTAGATGACACTGATGATTCTCACCAGTCTGATGAGTCTCACCATTCTGATGAATCTGATGAACGGTCACTGAT  
TTTCCACGGACCTGCCAGCAACCGAAGTTTTCACTCCAGTTGTCCCCACAGTAGACACATATGATGGCCGAGGT  
GATAGTGTGGTTTATGGACTGAGGTCAAAATCTAAGAAGTTTCGCAGACCTGACATCCAGTACCCTGATGCTACA  
GACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGAC  
CTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCT  
GAAACCCACAGCCACAAGCAGTCCAGATTATATAAGCGGAAAGCCAAATGATGAGAGCAATGAGCATTCCGATGTG  
ATTGATAGTCAGGAACTTTCCAAAGTCAGCCGTGAATTCACAGCCATGAATTTACAGCCATGAAGATATGCTG  
GTTGTAGACCCCAAAAGTAAGGAAGAAGATAAACACCTGAAATTTCTGATTTCTCATGAATTAGATAGTGCATCT  
TCTGAGGTCAATTAAAGGAGAAAAAATAAATTTCTCACTTTGCATTTAGTCAAAGAAAAAATGCTTTATAGC  
AAAATGAAAGAGAACATGAAATGCTTCTTTCTCAGTTTATTGGTTGAATGTGTATCTATTGAGTCTGGAAATAA  
CTAATGTGTTTGATAATTAGTTTAGTTTGTGGCTTCATGGAACTCCCTGTAAACTAAAAGCTTCAGGGTTATGT  
CTATGTTCAATCTATAGAAGAAATGCAAACTATCACTGTATTTTAAATATTGTTATTCTCTCATGAATAGAAATT  
TATGTAGAAGCAAACAAAATACTTTTACCCACTTAAAAAGAGAATATAACATTTTATGTCACTATAATCTTTTGT  
TTTTTAAGTTAGTGTATATTTTGTGTGATTATCTTTTGTGGTGTGAATAAATCTTTTATCTTGAATGTAATAA  
GAATTTGGTGGTGTCAATTGCTTATTGTTTTCCACGGTTGTCCAGCAATTAATAAAACATAACCTTTTTTACT  
GCCTAAAAA

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**FIGURE 1460**

MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPDAVATWLNPDPSQKQNLAPQTLPSKSNESHDMDDMD  
DEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDSHHSDSEDELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVV  
YGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQ LDDQSAETHS  
HKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELDSASSEVN

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**FIGURE 1461**

CTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGTGTAAGCCTTTT  
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGTGGAGACTTTTGCCTTTTCAGGCAGAAATTGCC  
CAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCTTCAGGAGTTGATCTCTAATGCT  
TCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTAAAGAGCTGAAA  
ATTGACATCATCCCCAACCTCAGGAACGTACCCTGGCTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT  
CTCATAAATAATTTGAGAACCATTGCCAAGTCTGGTACTAAAGCATGCATGGAGGCTCTTCAGGCTGGTGCAGAC  
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTTCTGCCTACCTGGTGGCAGAGAACTGGTTGTGATCACAA  
AGCACACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCTTCACTGTGCATGCTGATCATGGTG  
AGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACTTAGAAGAGAGGCGGG  
TCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCTTTATTTGGAGAAGGAACAAGACA  
AGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTAGAAAGAAGAGGATAAAGATGACGAAGAAAAGC  
CCAAGATCAAAGATGTGGGTTGAGATGAGGAGGATGACAGCAGTAAGGATAAGAAGAAGAAAAGTAAAGAAGATCA  
AAGAGAAATACATTGACTAGGAAGAATAAACAAGACCAAGCCTATTTGGACCAGAAACCATGATGACATCACCC  
AAGAGGAGTATGGAGAATTCTATAAGAGCCTACCCAGTGACTGGGAAGACCCTTGGCAGTCAAGCACTTTTCTG  
TAGAAGGTCAGTTGGAATTCAGGGCATTGCTATTTCAGTCTCGTCGGGCTCCCTTTGACCTTTTTGAGAACAAGA  
AGAAAAAGAACAACATCAAACCTGTATGTCGCGGTGTGTTCATCATGGACAGCTGTGATGAGTTGATACCAGAGT  
ATCTCAATTTTATCCATGGTGTGGTTGACTCTGAGGATCTGCCCTGAACATCTCCCGAGAAATGCTCCAGCAGA  
GCAAAATCTTGAAAGCATTTCGCAAAAACATTGTTAAGAAGTGCCCTTGAGCTCTTCTCTGAGCTGGCAGAAGACA  
AGGAGATTATAAGAAATTTCTATGAGGCATTTTCTAAAAATCTCAAGCTTGGAATCCACGAAGACTCCACTAACCG  
CCACCGCCTGTCTGAGCTGCTGCGCTGTACACCTCCCAGTCTGGAGATGAGATGACATCTCTGTCTAGTATGT  
TTCTCACATGAAGGAGACACAGAAGTCCACCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCTGC  
TTTTGTGGAGCGAGTGCGGAAACAGGGCTTCGAGGTGGTATATGACTGAGCCCATTGACGAGTACTGTGTGCA  
GCAGCTCAAGGAGTTTGATGGGAAAAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTACCTGAGGATGAGGA  
GGAGAAGAAGAAGATGGAAGAAAGCAAGGAAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGATAA  
GAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTACCCTGCTGCATTGTGACCAGCACCTACGGCTG  
GACAGCCAATATGGAGCAGATCATGAAAGCCAGGCACCTCGGGACAACCTCCACCATGGGCTATATGATGGCCAA  
AAAGCACCTGGAGATCAACCCCGACACCCCATCATGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGA  
TAAGGCAGTTAAGGACCTGGTGGTGCTGCTGTTTGAACCGCCCTGCTATCTTCGGGCTTTTCCCTTGAGGATCC  
CCAGACCCACTCCAACCACATCTACCACATGATCAAGCTAGGTCTAGGTACTGATGAAGATGAAGTGGCAGCAGA  
GGAACCCAGTGATGCAGTTCTGATGAGATCCCCCTCTTGAGGGTGATGAGGATGCGTCTCGCATGGAAGAAGT  
CGATTAGGAGTTCATAGTTGGAAAACCTGTGCCCTTGATAGTGTCCCATGGCTCCCACTGCAGCCTCGAGTGC  
CCCTGTCCACCTGGCTGCTGGTGTCTAGTGTTTTTTCCCTCTCTGCTTGTGTTGAAGGCAGGAAACCAAG  
GGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGATTGTGGTTTATTTTATTTCT  
TCATTTTGTCTGAAATTAAAGAATGTAAATAAAGAATATGCCGTTTTTATAC

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**FIGURE 1462**

MKETQKSTYYITGESKEQVANS AFVERVRKQGFVVYMT EPIDEYCVQQLKEFDGKSLVSVTKEGLELPED EEEK  
KKMEESKEKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMEQIMKAQALRDNSTMGYMMAKKH  
LEINPDHPIMETLRQKAEADKNDKAVKDLVLLFETALLSSGFSLED PQTHSNHIYHMIKLG LGTDEDEVA AEEP  
SDAVPDEIPPLEGDEDASRMEEVD



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**FIGURE 1463**

CTCTCAAGTCACTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGT  
GTAAGCCTTTTCTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGG  
CAGAAATTGCCCAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCCTTCAGGAGTTGA  
TCTCTAATGCTTCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTA  
AAGAGCTGAAAATTGACATCTCCATGATTGGGCAGTTTGGTGTTGGCTTTTTTCTGCCTACCTGGTGGCAGAGAA  
ACTGGTTGTGATCACAAAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTTCCTTCACTGT  
GCATGCTGATCATGGTGAGCCCATTTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTA  
CTTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCCTTTATTT  
GGAGAAGGAACAAGACAAGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAA  
AGATGACGAAGAAAAGCCCAAGATC

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**FIGURE 1464**

GAGCAGCAGAATTTCAACTCCAGTAGACTTGAATATGCCTCTGGGCAAAGAAGCAGAGCTAACGAGGAAAGGGAT  
TTAAAGAGTTTTTCTTGGGTGTTTGTCAAACCTTTATTCCCTGTCTGTGTGCAGAGGGGATTCAACTTCAATTTT  
TCTGCAGTGGCTCTGGGTCCAGCCCCTTACTTAAAGATCTGGAAAGCATGAAGACTGGGCTTTTTTTCCTATGTC  
TCTTGGGAAGTGCAGCTGCAATCCCGACAAATGCAAGATTATTATCTGATCATTCCAAACCAACTGCTGAAACGG  
TAGCACCTGACAACACTGCAATCCCCAGTTTAAGGGCTGAAGCTGAAGAAAATGAAAAAGAAACAGCAGTATCCA  
CAGAAGACGATTCCCACCATAAGGCTGAAAAATCATCAGTACTAAAGTCAAAGAGGAAAGCCATGAACAGTCAG  
CAGAACAGGGCAAGAGTTCTAGCCAAGAGCTGGGATTGAAGGATCAAGAGGACACTGATGGTCACTTAAGTGTGA  
ATTTGGAGTATGCACCAACTGAAGGTACATTGGACATAAAAGAAGATATGAGTGAGCCTCAGGAGAAAAAATCT  
CAGAGAACTGATTTTTTGGCTCCTGGTGTAGTTCCTTACAGATTCTAACCAACAAGAAAGTATCACAAGA  
GAGAGGAAAACCAAGAACAACCTAGAAATTATTCACATCATCAGTTGAACAGGAGCAGTAAACATAGCCAAGGCC  
TAAGGGATCAAGGAAACCAAGAGCAGGATCCAAATATTTCCAATGGAGAAGAGGAAGAAGAAAAAGAGCCAGGTG  
AAGTTGGTACCCACAATGATAACCAAGAAAGAAAGACAGAATTGCCCAGGGAGCATGCTAACAGCAAGCAGGAGG  
AAGACAATACCCAATCTGATGATATTTTGAAGAGTCTGATCAACCAACTCAAGTAAGCAAGATGCAGGAGGATG  
AATTTGATCAGGGTAACCAAGAACAAGAAGATAACTCCAATGCAGAAATGGAAGAGGAAAATGCATCGAACGTCA  
ATAAGCACATTCAAGAACTGAATGGCAGAGTCAAGAGGGTAAAAGTGGCCTAGAAGCTATCAGCAACCACAAAG  
AGACAGAAGAAAAGACTGTTTCTGAGGCTCTGCTCATGGAACCTACTGATGATGGTAATACCACGCCAGAAATC  
ATGGAGTTGATGATGATGGCGATGATGATGGCGATGATGGCGCACTGATGGCCCCAGGCACAGTCAAGTGATG  
ACTACTTCATCCCAAGCCAGGCCTTTCTGGAGGCCGAGAGAGCTCAATCCATTGCTATCACCTCAAATTTGAGG  
AGCAAAGAGAAAAAGTACATGAAAAATGAAAAATATAGGTACCCTGAGCCTGGAGAGCACCAAGAGGCCAAGAAAG  
CAGAGAACTCATCAAATGAGGAGGAAACGTCAAGTGAAGGCAACATGAGGGTGCATGCTGTGGATTCTTGCATGA  
GCTTCCAGTGTAAGAGAGGCCACATCTGTAAGGCAGACCAACAGGGAAAACCTCACTGTGTCTGCCAGGATCCAG  
TGACTTGTCTCTCAACAAAACCCCTTGATCAAGTTTGTGGCACTGACAATCAGACCTATGCTAGTTCTGTGTCATC  
TATTCGCTACTAAATGCAGACTGGAGGGGACCAAAAAGGGGCATCAACTCCAGCTGGATTATTTTGGAGCCTGCA  
AATCTATTCTACTTGTACGGACTTTGAAGTGATTGAGTTTCTCTACGGATGAGAGACTGGCTCAAGAATATCC  
TCATGCAGCTTTATGAAGCCAACCTCTGAACACGCTGGTTATCTAAATGAGAAGCAGAGAAATAAGTCAAGAAAA  
TTTACCTGGATGAAAAGAGGCTTTTGGCTGGGGACCATCCATTGATCTTCTCTTAAGGGACTTTAAGAAAACT  
ACCACATGTATGTGTATCCTGTGCACTGGCAGTTTGTAGTGAAGTGAACACACCCCTATGGATAGAGTCTTGACAC  
ATTCTGAAGTTGCTCCTCTGCGAGCATCTCTGGTGCCCATGGAACACTGCATAACCCGTTTCTTTGAGGAGTGTG  
ACCCCAACAAGGATAAGCACATCACCTGAAGGAGTGGGGCCACTGCTTTGGAATTAAAGAAGAGGACATAGATG  
AAAATCTCTTGTGTTTGAACGAAGATTTTAAAGAACTCAACTTTCCAGCATCCTCCTCTGTTCTAACCACTTCAGA  
AATATATGCAGCTGTGATACTTGTAGATTATATTTAGCAAAATGTTAGCATGTATGACAAGACAAATGAGAGTAA  
TTGCTTGACAACAACCTATGCACCAGGTATTTAACATTAACTTTGGAAACAAAAATGTACAATTAAGTAAAGTCA  
ACATATGCAAAATACTGTACATTGTGAACAGAAGTTTAAATCATAGTAATTTCACTCTCTGCATTGACTTATGAG  
ATAATTAATGATTAACTATTAATGATAAAAAATAATGCATTTGTATTGTTTATAATATCATGTGCACTTCAAGAA  
AATGGAATGCTACTCTTTTGTGGTTTACGTGTATTATTTTCAATATCTTAATACCCTAATAAGAGTCCATAAAA  
ATCC

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**FIGURE 1465**

CTTCGCCGCGTGGATGGCCTATTACATCAATCACCCCTCTCTACACTCCCCCTACCTACGGAGCTCAGCAGGTGAA  
ACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCGGGACCTGCGGCC  
CGCTGGGTCCAAGACGCGGAAGATCCCATACCCCACCAAGAACCCCTTCACGTGGCTCTTCCTGCTGGTGTCTG  
CCCCAACTACACCTACGAGGTGGGGTCCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCCAGTGGCCCTGTT  
CTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTTCCGGGA  
CTACCCGCCCCCTGCGCATGCCCATCATCCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGCTCAGCCCCTAA  
CCCGGTGGCATTCTGGGGGAGGAGTGGGGCCCACAGCTCTCCAGCACCCGGAATAAAGCCCGCCTGCCCCAGTCG  
GGA

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**FIGURE 1466**

GAGGGCGGGCCTGTTTCCGGGAGGCGCGTGGGGCTTGAGGCCGAGAACGGCCCTTGCTGCCACCAACATGGAGAC  
TTTGTACCGTGTCCTGTTCTTAGTGCTCGAATGTCCCAACCTGAAGCTGAAGAAGCCGCCCTGGTTGCACATGCC  
GTCGGCCATGACTGTGTATGCTCTGGTGGTGGTGTCTTACTTCCTCATCACCAGGAGGAATAATTTATGATGTTAT  
TGTTGAACCTCCAAGTGTCGGTTCATGACTGATGAACATGGGCATCAGAGGCCAGTAGCTTTCTTGGCCTACAG  
AGTAAATGGACAATATATTATGGAAGGACTTGCATCCAGCTTCCTATTTACAATGGGAGGTTTAGGTTTCATAAT  
CCTGGACCGATCGAATGCACCAATATCCCAAACTCAATAGATTCTTCTTCTGTTTCATTGGATTCTGTCTGTGT  
CCTATTGAGTTTTTTCATGGCTAGAGTATTCATGAGAATGAACTGCCGGGCTATCTGATGGGTAGAGTGCCTT  
TGAGAAGAAATCAGTGGATACTGGATTTGCTCCTGTCAATGAAGTTTTAAAGGCTGTACCAATCCTCTAATATGA  
AATGTGGAAGAAGATGAAGAGCAGCAGTAAAAGAAATATCTAGTGAAAAACAGGAAGCGTATTGAAGCTTGGAC  
TAGAATTTCTTCTTGGTATTAAAGAGACAAGTTTATCACAGAATTTTTTTCCTGCTGGCCTATTGCTATACCAA  
TGATGTTGAGTGGCATTTCCTTTTTAGTTTTTCATTAAAAATATATCCATATCTACAATAATATCAAATAAA  
GTGATTATTTTTTACAACCTCTTAACATTTTTTGGAGATGACATTTCTGATTTTCAGAAATTAACATAAAATCC  
AGAAGCAAGATTCCGTAAGCTGAGAACTCTGGACAGTTGATCAGCTTTACCTATGGTGCTTTGCCTTTAACTAGA  
GTGTGTGATGGTAGATTATTTAGATATGTATGTAAACTGTTTCCTGAACAATAAGATGTATGAACGGAGCAGA  
AATAAATACTTTTTCTAATTGCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1467**

METLYRVPFVLVECPNLKLLKPPWLHMPSAMTVYALVVVSYFLITGGIIYDVIVEPPSVGSMTDEHGHQRPVAFI  
AYRVNGQYIMEGLASSFLFTMGGLGFIIIDRSNAPNIPKLNRFLLFFIGFVCVLLSFFMARVFMRMKLPGYLMG

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**FIGURE 1468**

ATGCCCCAACTCTCCGGAGGAGGTGGCGGGCGGGGGGGACCCGGAACCTCTGCGCCACGGACGAGATGATCCCC  
TTCAAGGACGAGGGCGATCCTCAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAAGGCGATTTA  
GCTGACATCAAGTCTTCCTTGGTGAACGAGTCTGAAATCATCCCGGCCAGCAACGGACACGAGGTGGCCAGACAA  
GCACAAACCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCCGATGACGGAAGCATCCAGATGGAGGC  
CTCTACAACAAGGGACCCTCCTACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATAC  
ATGTCAAATGGATCTCTTTCTCCACCCATCCCGAGAACATCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCG  
GTCCATCCTCTCACCCCCCTCATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACCCGTCACACATCCCA  
TCAGATGTCAACTCCAAACAAGGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGTCT  
CCGGGTGGTGTGGACAGATCACCCACCTCTTGGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATT  
AGGCAACCTTACCCATCCTCACTGTCACTGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCCCGGTCTCT  
CCTGGTCCCCACAACTGGCATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACT  
GACAGTGACCTAATGCACGTGAAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAAGACCTCACATTAA  
AAGCCTCTGAATGCTTTTATGTTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGTACTCTAAAAGAA  
AGTGCAGCTATCAACCAGATTCTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAA  
TTAGCACGGAAGAAAGACAGCTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAA  
AAGAAGAGGAAGAGAGAGAACTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATCTGA

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**FIGURE 1469**

TGGCCACAACACCGACACAGTAGCATTGTGCCCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGC  
TAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCACGCTGCTTGAGGC  
TCTTGACTGCATCCTACCACCAACTCGTCCAAGTACAAGCCCTGTGCCTGCCTCTCCAGGATGTCTACAAAAT  
TGGTGGTATTGGTACTGTTCCCTGTTGGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGC  
TCCAGTCAACGTTGCAACAGAAGTAAAATCTGTTGAAATGCACCATGAAGCAGAAGGCTAAATAAATATTATCCC  
TACTACCTGCCACCCCACTGTTAATCAGTGGTGGAGAATGGTCTCAGAACTGTTTGTTTCAATTGGCCATTGAA  
GTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATCATAAACCTTCAGAAGGAAAGGAGAATGTTTGTGG  
ACCACTTTGGTTTTCTTTCTTTGCATGTGGCAGTTTAAAGTTATTAGTTTTTAAAATCAGTACTTTTTACTGGAA  
ACAACTTGACCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAGTTAATGAAAAA

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**FIGURE 1470**

AAGCCAGAACGAGAAAGGAAAAGACTCATATCAACACTGTGATCATCGGACACGTAGATTCTGGGCAAGTCCACCA  
CTACTGGCCATCTGATCTACAAATGCGGTGGCGTCGACAAAAGAACCATCGAAAAATTTGAGAAGGAGGCTGCTG  
AGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACATGGTATCACCA  
TTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGGGACAATGTGGGCTTCAATGTCAAGAATGTGTC  
TGTC AAGGATGTTTCGTCTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCAC  
TGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCCGTATTGGATTGCCACACGGC  
TCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAAGCTGGAAGATGGCCC  
TAAATTCTTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCGTGATGTTGAGAGCTTCTC  
AGACTATCCACCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGT  
GGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATAAATATTATC  
CCTA



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**FIGURE 1471**

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTGCCAGTTT  
CTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA  
AGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACTCGTCCAACTGACA  
AGCCCTTGTCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCTGAGTGGAGA  
CTGGTGTTCCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTAAATCTGTTGAAA  
TGCACCATGAAGCTTTGAGTGAAGTTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGG  
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG  
TGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCTGTATTGGATTGCCACACGGCTCACATTG  
CATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAGCTGGAAGATGGCCCTAAATTCT  
TCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGG

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**FIGURE 1472**

GTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATG  
CCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTGATTGTTG  
CTGCTGGTTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTGGCTTACA  
CACTGGGTGTGAAACAACATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCATAAGAGAT  
ATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTGC  
CAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCA  
CCCGTAAGGATGGCAATGCCAGTGAACAGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTG  
TTCCTGTTGGCTGAGTGGAGACTGGTGTTCCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAA  
CAGAAGTAAATCTGTTGAAATGCACCATGAAGCTTTGAGTGAAGTTCTTCTGGGGACAATGTGGGCTTCAATG  
TCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAG  
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

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**FIGURE 1473**

GAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAA  
GCTGAGCGTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATC  
ATTGATGCCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTG  
ATTGTTGCTGCTGGTTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTG  
GCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAT  
AAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCA  
TTTGTGCCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGG  
AAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACT  
CGTCCAAC TGACAAGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTT  
GGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTA  
AAATCTGTGTCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTG  
GCTTCACTGCTCAGGTGATTATCCTG

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## FIGURE 1474A

GGTGGTTTCGAGAAGCAGCAGTGAAGAGAAGCTACTGTGTTTGGTGCGGGAGCGAGCTGGCCACACCTGTGAGGC  
TGCAGTGATTGTGATTCTCATCCTGGTGTGGGAAGGAATCCCGTGTCTCTGGCTGACAACTCTACTCGGAGCT  
TACCGAGACGCTGAGGAAATACGGCACGCTCACCAATCGCCGGTGTGCCTTGAATGAAGAGAGAAGCTTGGCCTG  
TCAGGGGCTGGATCCAGAAACCTGTGGTGCCTCCTTCTCTTTTGGTTGTTTCATGGAGCATGTACTACAATGGATG  
TAAGTTTGGCAGAAGCAAGATCCCAAGGAAGTTTAAGCTGCTTGGGGATGACCCAAAAGAGGAAGAGAACTGGA  
GTCTCATTGCAAAACCTGTCCACTCTTATGGCACCAACATATAAGAACTTGCACCTGATGCATATAATAATCA  
GATTGAATATGAACACAGAGCACCAGAGTGGCTGTGGGTCTGAAGGAAGGCCGTCCATTCTCAGGGGTCACTGC  
ATGTTTGGACTTCTGTGCTCATGCCCACAGAGACTTGCACAACATGCAGAATGGCAGCACATTGGTATGCACCT  
CACTAGAGAAGACAATCGAGAATTTGGAGGAAAACCTGAGGATGAGCAGCTTACGTTCTGCCTTTATACAAAGT  
CTCTGACGTGGATGAGTTTGGGAGTGTGGAAGCTCAGGAGGAGAAAAACGGAGTGGTGGCATTTCAGTACTGAG  
TTCTTTTCGGCGAAAAGTCAGGATGTTAGCAGAGCCAGTCAAGACTTGCCGACAAAGGAACTAGAACCCAAGAA  
AGCTGCAGCTGAAAAGCTTTCTCCCTGGAGAACAGCTCAAATAAAAAATGAAAAGGAAAAGTCAGCCCCATCAG  
TACAAAACAACTGAAAACGCAAGCCAGGCTAAACAGTTGGCAGAACTTTTGCAGCTTCAGGACCAGTCATGCA  
GCAGTCCCAGCAGCCCCAGCCTCTACAGAAGCAGCCACCAGCCCCAGCAGCAGCAGAGACCCCAGCAGCAGCA  
GCCACATACCCTCAGACAGAGTCTGTCAACTCTTATTCTGCTTCTGGATCCACCAATCCATACATGAGACGGCC  
CAATCCAGTTAGTCCTTATCCAACTCTTCACACACTTCAGATATCTATGGAAGCACCAGCCCTATGAACCTCTA  
TTCCACCTCATCTCAAGCTGCAGGTTTCATATTTGAATTTCTTAATCCCATGAACCCCTTACCCTGGGCTTTTGAA  
TCAGAATACCAATATCCATCATATCAATGCAATGGAACCTATCAGTGGACAACCTGCTCCCCATATCTGGGTTC  
CTATTCTCCCCAGTCTCAGCCGATGGATCTGTATAGGTATCCAAGCCAAGACCCTCTGTCTAAGCTCAGTCTACC  
ACCATCCATACACTTTTACCAGCCAAGGTTTGGAAATAGCCAGAGTTTACATCTAAATACTTAGGTTATGGAAA  
CCAAAATATGCAGGGAGATGGTTTCAGCAGTTGTACCATTAGACCAAATGTACATCATGTAGGGAAATTCCTCC  
TTATCCCACTCATGAGATGGATGGCCACTTCATGGGAGCCACCTCTAGATTACCACCCAATCTGAGCAATCCAAA  
CATGGACTATAAAAATGGTGAACATCATTACCTTCTCACAATAATCCATAACTACAGTGCAGCTCCGGGCATGTT  
CAACAGCTCTCTTCATGCCCTGCATCTCCAAAACAAGGAGAATGACATGCTTTCCACACAGCTAAATGGGTTATC  
AAAGATGCTTCCAGCTCTTAACCATGATAGAACTGCTTGTGTCCAAGGAGGCTTACACAAATTAAGTGATGCTAA  
TGGTCAGGAAAAGCAGCCATTGGCACTAGTCCAGGGTGTGGCTTCTGGTGCAGAGGACAACGATGAGGTCTGGTC  
AGACAGCGAGCAGAGCTTTCTGGATCCTGACATTGGGGGAGTGGCCGTGGCTCCAACCTCATGGGTCAATTCTCAT  
TGAGTGTGCAAAAGCGTGAGCTGCATGCCACAACCCCTTTAAAGAATCCCAATAGGAATCACCACCAGGATCTC  
CCTCGTCTTTTACCAGCATAAGAGCATGAATGAGCCAAAACATGGCTTGGCTCTTTGGGAAGCCAAAATGGCTGA  
AAAAGCCCCTGAGAAAGAGGAAGAGTGTGAAAAGTATGGCCAGACTATGTGCCTCAGAAATCCCATGGCAAAAA  
AGTGAAACGGGAGCCTGCTGAGCCACATGAACTTCAGAGCCCCTTACCTGCGTTTCATCAAGTCTCTTGGCGA  
AAGGACCATGTCCGTGACCACAGACTCCACAGTAACTACATCTCCATATGCCTTCACTCGGGTCACAGGGCCTTA  
CAACAGATATATATGATATCACCCTTTTGTGTGGTTACCTCACTTGAAAAGACCACAACCAACCTGTCAGTAGT  
ATAGTTCTCATGACGTGGGCAGTGGGGAAGGTCACAGTATTATGACAAATGTGGTGGGAAAAACCTCAGCTCA  
CCAGCAACAAAAGAGGTTATCTTACCATAGCACTTAATTTTCACTGGCTCCCAAGTGGTCACAGATGGCATCTAG  
GAAAAGACCAAAGCATTCTATGCAAAAAGAAGGTGGGGAAGAAAGTGTCCGCAATTTACATTTTAAACACTGG  
TTCTATTATTGGACGAGATGATATGTAAATGTGATCCCCCCCCCGCTTACAACCTCTACACATCTGTGACCACT  
TTTAATAATATCAAGTTTGCATAGTCATGGAACACAAATCAAACAAGTACTGTAGTATTACAGTGACAGGAATCT  
TAAAATACCATCTGGTGTGAATATATGATGTACTGAAATACCTGGAATATGGCTTTTGAATGCAGTTTATAC  
TGTAATCTTAACTTTTATTTATCAAAATAGCTACAGGAAACATGAATAGCAGGAAAACACTGAATTTGTTGGAT  
GTTCTAAGAAATGGTGCTAAGAAAATGGTGTCTTTAATAGCTAAAAATTAATGCCTTTATATCATCAAGATGCT  
ATCAGTGTACTCCAGTGGCCTTGAATAATAGGGGTACCTTTTCACTCAAGTTTTTATCATAATTACCTATCTTA  
CACAAGCTTAGTTTTTAAATGTGGACATTTTAAAGGCCTCTGGATTTTGCTCATCCAGTGAAGTCTTGTAGGA  
CAATAAACGTATATATGTACATATATACACAAACATGTATATGTGCACACACATGTATATGTATAAATATTTAA  
ATGGTGTTTTGAAGCACTTTGTCTACCTAAGCTTTGACAACCTTGAACAATGCTAAGGTACTGAGATGTTTAA  
AACAAGTTTACTTTTCAATTTTAGAATGCAAGTTGATTTTTTAAAGGAAACAAAGAAAGCTTTTAAATATTTTG  
CTTTTAGCCATGCATCTGCTGATGAGCAATTGIGTCCATTTTTAACACAGCCAGTTAAATCCACCATGGGGCTTA  
CTGGATTCAAGGGAATACGTTAGTCCACAAAACATGTTTTCTGGTGTCTCATCTACATGCTATACTGTAAACAG

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**FIGURE 1474B**

TTTTATACAAAATTGTATGACAAGTTCATTGCTCAAAAATGTACAGTTTTTAAGAATTTTCTATTAACTGCAGGTA  
ATAATTAGCTGCATGCTGCAGACTCAACAAAGCTAGTTCAGTGAAGCCTATGCTATTTTATGGATCATAGGCTCT  
TCAGAGAAGTGAATGGCAGTCTGCCTTTTGTTGATAATTATGTACATTGTGACGTTGTCATTTCTTAGCTTAAG  
TGTCCTCTTTAACAAGAGGATTGAGCAGACTGATGCCTGCATAAGATGAATAAACAGGGTTAGTTCATGTGAAT  
CTGTCAGTTAAAAAGAAACAAAACAGGCAGCTGGTTTGCTGTGGTGGTTTTAAATCATTAAATTGTATAAAGAA  
GTGAAAGAGTTGTATAGTAAATTAAATTGTAAACAAAACTTTTTAATGCAATGCTTTAGTATTTAGTACTGTA  
AAAAAATTAAATATATACATATATATATATATATATATATATATATATAGTTTGAAGCAGAATTCACATCAT  
GATGGTGCTACTCAGCCTGCTACAAATATATCATAATGTGAGCTAAGAATTCATTAAATGTTTGAGTGATGTTCC  
TACTTGTCATATACCTCAACACTAGTTTGGAATAGGATATTGAAGTGAAGAGTGAAGCATTGTGTACCATCATT  
TTTTTCCAAGTCCTTTTTTTTATTGTTAAAAAAAAGCATACTTTTTTCAATACTTTGATTTCTTAGCAAGTAT  
AACTTGAAGTTCACCTTTTTTGTCTAAAAATTCAGGGATATTTCAGCTCATGCTCTCCCTATGCCAACATGTCA  
CCTGTGTTTATGTAAATTTGTTAGGTTAATAAATATATCTTTGTGAGGATTTAACCCTTTTATTTTGAATC  
CCTTCTATTTTACTTGTACATGTGCTGATGTAACATAAACTAATTTTGTAATCTGTTGGCTCTTTTTATTGTAA  
AGAAAAGCATTTTAAAGTTTGAGGAATCTTTTGACTGTTTCAAGCAGGAAAAAAAATTACATGAAAATAGAAT  
GCACTGAGTTGATAAAGGAAAAATTGTAAGGCAGGAGTTTGCAAGTGGCTGTTGGCCAGAGACTTACTTGTA  
CTCTCTAAATGAAGTTTTTTTGATCCTGTAACTCACTGAAGGTACATACTCCATGTGGACTTCCCTTAAACAGGCA  
AACACCTACAGGTATGGTGTGCAACAGATTGTACAATTACATTTTGGCCTAAATACATTTTTTGCTTACTAGTATT  
TAAAAATAATCTTAATCAGAGGAGGCCCTTTGGGTTTTATTGGTCAAATCTTTGTAAGCTGGCTTTTGTCTTTTT  
AAAAAATTTCTTGAATTTGTGTTGTGTCCAATTTGCAAACATTTCCAAAAATGTTTGTCTTGTGCTTACAAACCAC  
ATGATTTTAATGTTTTTTGTATACCATAATATCTAGCCCCAACATTTGATTACTACATGTGCATTGGTGATTTT  
GATCATCCATTCTTAATATTGATTTCTGTGTACCTACTGTCAATTTGTTAAACTGCTGGCCAACAAGAACAGGA  
AGTATAGTTTGGGGGGTTGGGGAGAGTTTACATAAGGAAGAGAAGAAATTGAGTGGCATATTGTAAATATCAGAT  
CTATAATTGTAAATATAAAACCTGCCTCAGTTAGAATGAATGGAAAGCAGATCTACAATTTGCTAATATAGGAAT  
ATCAGGTTGACTATATAGCCATACTTGAAAATGCTTCTGAGTGGTGTCAACTTTACTTGAATGAATTTTTTCATCT  
TGATTGACGCACAGTGATGTACAGTTCACCTCTGAAGCTAGTGGTTAACTTGTGTAGGAACTTTTGCAGTTTGA  
CACTAAGATAAATCTGTGTGCAATTTTCTATGCTTTTTTAAAAACTAGTTTCATTTCAATTTTCATGAGATGTTT  
GGTTTATAAGATCTGAGGATGGTTATAAATCTGTAAAGTATTGTAATGTTATGAATGCAGGTTATTTGAAAGCTG  
TTTATTATTATATCATTCCTGATAATGCTATGTGAGTGTTTTTTAATAAAATTTATATTTATTTAATGCACTCT

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**FIGURE 1475**

MAPTYKKLAPDAYNNQIEYEHRAPECRLGLKEGRPFSGVTACLDCAHAHRDLHNMQNGSTLVCTLTREDNREFG  
GKPEDEQLHVLPLYKVSDVDEFGSVEAQEEKKRSGAIQVLSSFRKVRMLAEPVKTCRQRKLEAKKAAAEKLSSL  
ENSSNKNEKKSAPSRTKQTENASQAKQLAELLRLSGPVMQQSQQPQLQKQPPQPQQQRPQQQQPQHPQTESV  
NSYSASGSTNPYMRRPNPVSYPNSSHTSDIYGSTSPMNFYSTSSQAAGSYLNSSNPMNPYPGLLNQNTQYPSYQ  
CNGNLSVDNCSPLYGSYSPQSQPMDLRYPSQDPLSKLSLPPIHTLYQPRFGNSQSFTSKYLGYGNQNMQGDGFS  
SCTIRPNVHHVGKLPPYPTHEMDGHFMGATSRLPPNLSNPNMDYKNGEHHSPSHIIHNYSAAPGMFNSSLHALHL  
QNKENDMLSHTANGLSKMLPALNHDRTACVQGGHLKLSDANGQEKQPLALVQGVASGAEDNDEVWSDSEQSFLDP  
DIGGVAVAPTHGSILIECAKRELHATTPKPNRNHPTRISLVFYQHKSMEPKHGLALWEAKMAEKAREKEEEEC  
EKYGPDYVPQKSHGKKVKREPAEPHETSEPTYLRFIKSLAERTMSVTTDSTVTTSPYAFTRVTGPNRYI

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**FIGURE 1476**

AGGCACAGGCAGCCTGCATACACTCCTTTTCTGGTGTCAACATTATTTAAAAGCATGGGAAATAGTAATGAGAC  
AGTGTCTTCTTCATTAGAACCTTAGGAGTCTACTAGATTTCTTCATCTCTATTGTGTATTAGTAGCCAACT  
GTGCAAAAAACACGGTCTTGAGAAATGACAGCACAGTATCTTAGAGGGAAAGGAAATGTAGGATGCCAGTGTGGG  
GACAAATTTCTGATTGCCAGTGATTGTTGTGAGCATAACAATAATTTTCATGAACATTAAAGCCTCTATTGAGGGC  
AGCTGCAGTTGTAAAGGAAAAAAATGGTCTGAAACATTTAAACTACACTGGTGTACATCATAATCAAACAAAG  
TAAACAGAAAAAATTTAACTTTGCTAAAAAAAAGCAGAAGCACTTGATCTTTAGGAAGGCACGCAGTTGC  
TTATTATGAATCATTCTTAGAGTCCGATGCATTTTCAAAGCCGGTTACAGTCATTACGAAGCACACCCTTGTGAG  
GTAAGTGTATCATCACCTTGGTTTATAAATAAAAAAGCTGAGACGCCGAGCGATTAAAGTCACTCGCCTAAGGAG  
AATGAGTCAACGTCAAGAGTCATAGTTGACCCGGCCTAAAGACTCCAGACCATCAGTCCAGGGCTTAGTCAGCGG  
GGCCCGGAGTGGCTTCCCTGGCTGGCATCTGGACTTAGGCTATTTCCGTGCACGTAAGCGGAATATTGGAACG  
GTTGCACAGAACTTCCAAATAATTTTTACCGCCACGCAAGATTTAGCCCTGAGGTCTTAATCTCAGGATTTGGGA  
CAGTAAAAGCTGTCTCCCTCCCCCTCGTCCAGCCGGTGGCAAGCGGGTACTGCGGGCGGTTCCGTCCGTCCCT  
TTCGCAGAAATGGCAACGAATGACCACCAGCATTAGCTGAGCCAGGGGACGTGGGAGGGTTGATTGCCTAAACGA  
CTCTGCATCGCCGCTCTTTTTGAACTAAGAGAAAATGGTGGGAGATCAAAGAAAACTAAATAAACACACAGG  
CAACTTGTCTTGGGACCTCAACTAAGCAATGAAGCCTTATTGTGTGTGCTGAGCCTGCAGTTCCCAACCTTCCG  
GGGAAGATGGGAGGACAGGGCGACAAAGGCGACAGTAGGCTTGCCTGGCAGTAAGTGTGACCGCAGCTATCCAGG  
CGGAAGAGCAGAGGACTGAAACCACCCTCCAGCAAGCGAGTGTCTCGCCGCGTTGAGAACCAGCGCACCTACCCAT  
CGGCCACGTGACCAGTCTCTTTTTAAAAAAATTTTACCTTAAAAAAAAGGTGGGGGAGAG  
ACTCCACTTCCAGAAAGCCTCTCGTTACTCAGCAGCCGAGTCTTGCAGGAGTGCCTGAGGCGCAACCGGACA  
TATCCGTACAGTGGCCAGAGCTGGCCAATCCGGTTTGAATCTCATTTTTTTCTCTTACCCCCCTTCTGGAGC  
GGTTGTGCGATCAGATCGATCTAAGATGGCGACTGTGCAACCGGAAACCACCCTACTCCTAATCCCCGACTAC  
AGAAGAGGAGAAAAACGGAATCTAATCAGGAGGTTGCTAACCCAGAACACTATATTAAACATCCCTACAGAACAG  
ATGGGCACCTCTGGTTTTTTAAAAATGATAAAAGCAAACTTGGCAAGCAAACTGCGGCTGATCTCCAAGTTTGA  
TACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTC  
ACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGAGGACGATGGCTAATTACATT  
GAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTT  
TGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGAC  
TACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCTCCAAA  
GATAGTGATTGGTTATCAGTCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAAAATAGGTTTGTGTG  
TTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTGAGGAGCTGAACCAAGCC  
TCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTTCATCTTAATGTTACTCAGATATAAGAGAAGTCTCA  
TTGCGCTTTGTCTTGACTTCTGTGTTTCAATTTTTTTTTTTTTTTTGGCTAGAGTTTCCACTATCCCAATCAAAG  
AATTACAGTACACATCCCCAGAATCCATAAATGTGTTCCCTGGCCACTCTGTAATAGTTCAGTAGAATTACCATT  
AATTACATACAGATTTTACCTATCCACAATAGTCAGAAAACACTTGGCATTCTATACTTTACAGGAAAAAAA  
TTCTGTTGTTCCATTTTATGCAGAAGCATATTTGCTGGTTTGAAGATTATGATGCATACAGTTTCTAGCAAT  
TTTCTTTGTTTCTTTTACAGCATTGCTTTGCTGTACTCTTGTGATGGCTGCTAGATTTTAAATTTATTGTTT  
CCCTACTTGATAATATTAGTGATTCTGATTTTCAGTTTTTCATTTGTTTTGCTTTTGTTTTTTCTCATGTAACA  
TTGGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTGTGCATTCTTTGGTAATTTTTTTT  
GTTTTTTGTAACATAAAAGCTTTGCTACAAATTTATGCATTTCAATCAATCAGTGATCTATGTTTGTGTGATT  
CCTAAACATAATGTGGATTATAAAAAATGTAACATCATAATTACATTCCTAACTAGAATTAGTATGTCTGTTTT  
TGTATCTTTATGCTGATTTTAAACACTTTGTATTACTTAGGTTATTTTGGCTTTGGTTAAAAATGGCTCAAGTAGA  
AAAGCAGTCCCATTATTAAGACAGTGTAACAACTGTAAATAAAATGTGTACAGTGAATTGTCTTTTAGACA  
ACTAGATTTGCTCTTTTATTTCTCCATCTTTATAGAAGGAATTTGTACTTCTTATTGCAAGGCAGTCTCTATATT  
ATGTCTTCTTTTGTGGTGTCTTCCATGTGAACAGCATAAGTTGGAGCACTAGTTTGATTATTATGTTTATTACA  
ATTTTTAATAAATTGAATAGGTAGTATCATATATATGGA

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**FIGURE 1477**

AGCGGCACGCACCACAGCTCGAGCACCGCCCTTCCGGTTGGAGCCATTGCAAGCCCCCCCCACGCCCGCCCCC  
TCGCTAGGCGCTCGCCACGCCCATGCCTCCGTCGCTGCGCGGCCACCCCGGATGTCAGCCCCCGCGCCGACCA  
GAATCCGTGAACATGGCGAACGAGGTTATCAAGTGCAAGGCTGCAGTTGCTTGGGAGGCTGGAAAGCCTCTCTCC  
ATAGAGGAGATAGAGGTGGCACCCCAAAGGCTCATGAAGTTCGAATCAAGATCATTGCCACTGCGGTTTGCCAC  
ACCGATGCCATACCCCTGAGTGGAGCTGATCCTGAGGGTTGTTTTCCAGTGATCTTGGGACATGAAGGTGCTGGA  
ATTGTGGAAAGTGTTGGTGAGGGAGTTACTAAGCTGAAGGCGGGTGACACTGTCATCCCACITTTACATCCCACAG  
TGTGGAGAAATGCAATTTTGTCTAAATCCTAAACTAACCTTTGCCAGAAGATAAGAGTCACTCAAGGGAAAGGA  
TTAATGCCAGATGGTACCAGCAGATTTACTTGCAAAGGAAAGACAATTTTGCATTACATGGGAACCAGCACATTT  
TCTGAATACACAGTTGTGGCTGATATCTCTGTTGCTAAAATAGATCCTTTAGCACCTTTGGATAAAGTCTGCCTT  
CTAGGTTGTGGCATTTCACCCGTTATGGTGCTGCTGTGAACACTGCCAAGTTGGAGCCTGGCTCTGTTTGTGCC  
GTCTTTGGTCTGGGAGGAGTCGGATTGGCAGTTATCATGGGCTGTAAAGTGGCTGGTGTCTCCCGGATCATTGGT  
GTGGACATCAATAAAGATAAATTTGCAAGGGCCAAAGAGTTTGGAGCCACTGAATGTATTAAACCTCAGGATTTT  
AGTAAACCCATCCAGGAAGTGCTCATTGAGATGACCGATGGAGGAGTGGACTATTCTTTGAATGTATTGGTAAT  
GTGAAGGTCATGAGAGCAGCACTTGAGGCATGTCAAAAGGCTGGGGCGTCAGCGTCGTGGTTGGTAGCTAGCT  
TCAGGTGAAGAAATTGCCACTCGTCCATTCCAGCTGGTAACAGGTGCGACATGGAAAGGCACCTGCCCTTTGGAGGA  
TGGAAGAGTGTAAGAAAGTGTCCTCAAAGTTGGTGCTGAATATATGTCCAAAAGATAAAAGTTGATGAATTTGTG  
ACTCACAATCTGTCTTTTGTATGAAATCAACAAAGCCTTTGAAGTATGATTCATTCGAAAGAGCATTTCGAACCTGTT  
GTAAAGATTTAATTCAAAAGAGAAAAATAATGTCCATCCTGTCTGTATGTGATAGGAGCAGCTTAACAGGCAGGG  
AGAAGCGCCTCCAACCTCACAGCCTCGTAGAGCTTCACAGCTACTCCAGAAAATAGGGTTATGTGTCTATTTCAT  
GAATCTCTATAATCAAGGACAAGGATAATTCACTCATGAACCTGTTTTCTGGATGCTCCTCCACATAAATAATTG  
CTAGTTTATTAAGGAATATTTTAACATAATAAAAGTAATTTCTACATTTGTGTGGAAATTGTCTTGTTTTATGCT  
GTCATCATTGTACAGGTTTGTCTGCCATTATCTTCACTTCTGCAAGGGAAAGGGAAGGAAGCAGGGCAGTGGTG  
GGTGTCTGAAACCTCAGAAACATAACGTTGAACTTTTAAGGGTCTCAGTCCCCGTGATTAAAGAACAGATCCTA  
GCCATCAGTGACAAAGTTAATCAGGACCCAAGTCTGCTTCTGTGATATTATCTTGAAGGGAGGTACTGTGCCTTG  
TTCATACCTGTACCCCAAATTCCTAGGATGGCATCTGCCCTTCAGGGGGCACTAAAATGTATTATTGAAACAGCA  
TTCTGGGCTTAAATAGGTGTATGTATGTGTTGGTTGTGACTGTACTATTTCTAGTATAGTGAACACTACATACTGAA  
TATCCAAGTTCTCAGCACCTACTTTTGTCAAATCTTAACATTTTGCCACTTCGAGATCACATTGCCATTCTCC  
CTCCAGAGGTAACAATTATCCACAATTTGATGTTTATCATTCCTGTGTTGTTGTACTTTCACTGTGTATAACCTA  
AACCATCTACTCTTTAGTACTGTTTTATATATTTTAAAGCCTCATACTTGCTCATTCTACAGCTTTTTTCACTCA  
TTATTGTATAATTATATCTGAAGCTCTCGTTCATTAATTTTAGTCCGTGTGTAGCAGAATTCAATTACGGGAAC  
CCATAATTTATCTGTTCTCCAGTTGAAGGCATGAAGTTGTTGCCAGTTTCTGTATTATAACACTGTAGTGGAA  
TTCTTCTGCATTGGGCTCACTGCGTGTTACCTAAGACGTATCACAGAATAAACACATTTAGCCTTATAGACATTG  
CCAAATTGCTCTTCAAAGTAAATGTGAGTTTTTGTGAATTACATGAGTATGGAATGGTGTTTTATTATGACTTTA  
GTTTGCATTTTCTCTAA



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**FIGURE 1478**

CGCAGTTTGAATCGCGGTGCGACGAAGGAGTAGGTGGTGGGATCTCACCGTGGGTCCGATTAGCCTTTTCTCTGC  
CTTGCTTGCTTGAGCTTCAGCGGAATTCGAAATGCTGGCGGTAAGGCTGGAAAGGACTCCGGAAAGGCCAAGAC  
AAAGGCGGTTTCCCGCTCGCAGAGAGCCGGCTTGCACTTCCAGTGGGCCGTATTCATCGACACCTAAAATCTAG  
GACGACCAGTCATGGACGTGTGGGCGCGACTGCCGCTGTGTACAGCGCAGCCATCCTGGAGTACCTCACCGCAGA  
GGTACTTGAACTGGCAGGAAATGCATCAAAAGACTTAAAGGTAAAGCGTATTACCCCTCGTCACTTGCAACTTGC  
TATTCGTGGAGATGAAGAATTGGATTCTCTCATCAAGGCTACAATTGCTGGTGGTGGTGTCAATCCACACATCCA  
CAAATCTCTGATTGGGAAGAAAGGACAACAGAAGACTGTCTAAAGGATGCCTGGATTCCCTTGTTATCTCAGGACT  
CTAAATACTCTAACAGCTGTCCAGTGTGGTGATTCCAGTGGACTGTATCTCTGTGAAAAACACAATTTGCCTT  
TTTGTAATTCTATTTGAGCAAGTTGGAAGTTTAATTAGCTTTCCAACCAACCAATTTCTGCATTGAGTCTTAA  
CCATATTTAAGTGTTACTGTGGCTTCAAAGAAGCTATTGATTCTGAAGTAGTGGGTTTGTATTGAGTTGACTGTT  
TTTAAAAAAGTGTGGATTGTTAATTGTGATGCAGAAGTTATAGTAACAAACATTGGTTTTGTACAGACATTAT  
TTCCACTCTGGTGGATAAGTTCAATAAAGGTCATATCCCAAACATAAA

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**FIGURE 1479**

MAGGKAGKDSGKAKTKAVSRSQRAGLQFPVGRIHRHLKSRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK  
DLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIKSLIGKKGQKTV

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**FIGURE 1480**

AAGATGCTGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCTGCTGTCGTGAAGAAGCAGGAGGCT  
AAGAAAGTGGTGAATCCCTGTTTGGAGAAAGGCCTAAGAATTTGGCATTGGACAGGACATCCAGCCCAAAGA  
GACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCAGCAGAGAGCCATCCTCTATAAGCGGCTG  
AAAGTGCCCTCCTGCGATTAAACAGTTACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC  
CACAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGGCTGTTGGCCCAGGCCGAGAAGAAAGCTGCTGGCAAAGG  
GGACGTCCCCACCAAGAGACCACCTGTCCTTTGAGCAGGAGCTGGCTGTCTTCTTGCCTGCCCTATGTCGTAAAA  
TGGTGGTCCCTTAGTGATTATCAAGAGGAAGGCAAGACTGGGACGTCTCGTCCACAGGAAGACCTGCACCACTG  
TCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTTGGCTAAGCTGGTGGGAAGCTATCAGGACCAATTACA  
ATGACAGATACGATGAGATCTGCCGTCCTGGGGTGGCAACATCCTGGGTCCTAAGTCTGTGGCTCGCATTGCCA  
AGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAACTGGGTAAATGTGCACTGTTGAGTTTTCTGTACATA  
AAAATAATTAAATAATACAAATTTTCCTTCAAGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1481**

MLKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEERPKNFGIGQDIQPKRDLTRFVKWPRYIRLQQQRAILYKRLK  
VPPAINQFTQALDRQTATQLLKLAKYRPETKQEKKAVGPGREESCWQRGRPHQETTCPLSSWLSSCLPYVVKWW  
SLSALSRRGRQDWDVSSTGRPAPLSPSHR

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**FIGURE 1482**

CCTCTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGCCA  
CGTGCAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTG  
AAACATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCT  
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG  
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGG  
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTTA

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**FIGURE 1483**

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT  
CTAGGCCTTTTAGAAAACATGGAGTTATTCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG  
ACATCAAGGGAACGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA  
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG  
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAA  
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGCAGCACACTTTG  
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATGAATTCATGGCATAGGTGTTAAAAAAA  
AAAAAATAAAGGACCTCTGGGCTACAA

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**FIGURE 1484**

ATGAATTTTGAACCCTTATCCTTGAGCACTGATCAATTTTCTAAAGTTACTGGGGGTGTGGAAACAGTAAAGCTT  
AAACTGACACAAGATGAAATAGAAAACCTTACATTGCCCTGTCTCCATTAAGGAACCTGAAGAAGCCAAATTGGCA  
GAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGCAAGTCTGGAAGGGTG  
CAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAACCTGCCTGCTCCTTCCTGCAGGAGCTGGTGTCC  
GTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCCTGGGACACGTGAAGCACAACTTAGGAAGCAGCAG  
CAGGGAGGAGTGGCTGTGACATCACAGCCTGTGACTCTACTGGTGCAACAAGCAGTAACCCCTCTGGGCACCTCT  
AGCTCCTCTCAGGGCCCTGGGGCCACACTGGTGAAGCAAGGCCCCCGAAGGCGAGTCCCATCCCCTTTCCACCC  
CGAGAAAAGCACCTTTCCCCAAAGCCACAGCCCTGCCAGGGGTTCTATCTCCTCTCTCAGGCCAAATAA

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**FIGURE 1485**

GGGAAGTGCTGTTGGAGCCGCTGTGGTTGCTGTCCGCGGAGTGGAAGCGCGTGCTTTTGTGTTGTGTCCTGGCCA  
TGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCTGCGCGGAGCGCCGAAATCGTGGCCGAGTTCTTCTCAT  
TCGGCATCAACAGCATTTTATATCAGCGTGGCATATATCCATCTGAAACCTTTACTCGAGTGCAGAAATACGGAC  
TCACCTTGCTTGTAAGTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGGAACAACTGAAAGATTGGT  
TATACAAGTGTTTCACTTCAGAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGTCCTGGAAAGATGGC  
AGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAGTCTCAGAAAGCTATCCAGG  
ATGAAATCCGTTTCACTGATCAGACAGATCACAGCTACGGTGACATTTCTGCCACTGTTGGAAGTTTCTTGTTCAT  
TTGATCTGCTGATTTATACAGACAAAGATTTGGTTGTACCTGAAAAATGGGAAGAGTCGGGACCACAGTTTATTA  
CCAATTCTGAGGAAGTCCGCCTTCGTTTCACTTACTACTACAATCCACAAAGTAAATAGCATGGTGGCCTACAAA  
TTCCTGTCAATGACTGAGGATGACATGAGGAAAATAATGTAATTGTAATTTTGAATGTGGTTTTCTGAAATCA  
GGTCATCTATAGTTGATATGTTTTATTTTTCATTGGTTAATTTTACATGGAGAAAACCAAAATGATACTTACTGAA  
CTGTGTGTAATTGTTCCTTTATTTTTTGGTACCTATTTGACTTACCATGGAGTTAACATCATGAATTTATTGCA  
CATTGTTCAAAGGAACAGGAGGTTTTTTTGTCAACATTGTGATGTATATTCCTTTGAAGATAGTAACGTAGA  
TGGA AAAACTTGTGCTATAAAGCTAGATGCTTTCCTAAATCAGATGTTTTGGTCAAGTAGTTTGACTCAGTATAG  
GTAGGGAGATATTTAAGTATAAAATACAAAGGAAGTCTAAATATTCAGAACTTTTGTAAAGGTCCTGAAAGT  
AACTCATAATCTATAAACAATGAAATATTGCTGTATAGCTCCTTTTGACCTTCATTTTATGTATAGTTTTCCCTA  
TTGAATCAGTTTCCAATTATTTGACTTTAATTTATGTAACCTGAACCTATGAAGCAATGGATATTTGTACTGTTT  
AATGTTCTGTGATACAGAACTCTTAAAAATGTTTTTCATGTGTTTTATAAAATCAAGTTTTAAGTGAAAGTGAG  
GAAATAAAGTTAAGTTTGTTTTAAAAA AAAAAAAAAAAAAA



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**FIGURE 1486**

MALQLSREQGITLRGSAEIVAEFFSFGINSILYQRGYIPSETFTRVQKYGLTLLVTTDLELIKYLNNVVEQLKDW  
LYKCSVQKLVVISNIESGEVLERWQFDIECDKTAKDDSAPREKSQKAIQDEIRSVIRQITATVTFLPLEVSCS  
FDLLIYTDKDLVPEKWEESGPQFITNSEEVRLRSFTTIIHKVNSMVAYKIPVND

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**FIGURE 1487**

CTGGGATTACAGGTGTGAGCCATCTTGCTCATTITTAGITTTAACTTTTGAGTGGTTTGTGTCTCCTGATTGGACT  
CCTACAAATACAGAATTGATGCTAGGAAGGGTACCAGGAGATAGATGCACACAGATGGGATTTGGGAGTAGGTTT  
GGTTATCCAAGGAGCAGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCCAGGAAGTGACCTCA  
CAATGACTCAAGCTACCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCTGCGAGCTTAGGGGTGC  
TACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTTGAATGCACTTGAG  
CAGCGGTCTCCAACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAAGAGAG  
ACTGACTGGGCAACATGTTATTTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACATGCCCCACTGATTCT  
ACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCA  
TGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAAAC  
AGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCTAG  
GCCCTGAACTTTCTGAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTG  
CATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCATAGCAG  
ATTCTTGAGGCCCAGCATCTGCCTCACTGTGGACCCCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGC  
AAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTTCGGGCCAGCCCA  
GCTCATGCCTCCCAGCGGCCTTCCCAGGCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCTG  
GCCTCCTGCCTCCCGAA

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**FIGURE 1488**

MLLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQQLHRYNGLFRPSSCLPAFSLGP  
ELSEVDLTRPSSCFFAASPGPPLPPVGLYSPNICLIADS

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**FIGURE 1489**

AGGGCCGGGGTGGGGCGCTGGCGTTTCCGTTGCTTGGATCAGTCTAGGTGCAGCTGCGGATCCTTCAGCGTCTGC  
ATCTCGGCGTCGCCCCGCGTACCGTCGCCCCGCTCTCCGCCGCTCTCCCGGGGGTTCGGGGCACTTGGGTCCCAC  
AGTCTGGTCCTGCTTCACCTTCCCCCTGACCTGAGTAGTCGCCATGGCACAGGTTCTCAGAGGCACTGTGACTGAC  
TTCCCTGGATTTGATGAGCGGGCTGATGCAGAACTCTTCGGAAGGCTATGAAAGGCTTGGGCACAGATGAGGAG  
AGCATCCTGACTCTGTTGACATCCCGAAGTAATGCTCAGCGCCAGGAAATCTCTGCAGCTTTTAAGACTCTGTTT  
GGCAGGGATCTTCTGGATGACCTGAAATCAGAACTAACTGGAAAATTTGAAAAATTAATTGTGGCTCTGATGAAA  
CCCTCTCGGCTTTATGATGCTTATGAACCTGAAACATGCCTTGAAGGGAGCTGGAACAAATGAAAAAGTACTGACA  
GAAATTATTGCTTCAAGGACACCTGAAGAAGTGAAGAGCCATCAAACAAGTTTATGAAGAAGAATATGGCTCAAGC  
CTGGAAGATGACGTGGTGGGGGACACTTCAGGGTACTACCAGCGGATGTTGGTGGTTCTCCTTCAGGCTAACAGA  
GACCCTGATGCTGGAATTGATGAAGCTCAAGTTGAACAAGATGCTCAGGCTTTATTTTCAGGCTGGAGAAGCTTAAA  
TGGGGGACAGATGAAGAAAAGTTTATCACCATCTTTGGAACACGAAGTGTGCTCTCATTGAGAAAGGTGTTTGAC  
AAGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACTTCTGGCAATTTAGAGCAACTA  
CTCCTTGCTGTTGTGAAATCTATTGGAAGTATACCTGCCTACCTTGACAGAGACCTCTATTATGCTATGAAGGGA  
GCTGGGACAGATGATCATACCTCATCAGAGTCATGGTTTCCAGGAGTGAGATTGATCTGTTTAACATCAGGAAG  
GAGTTTAGGAAGAATTTTGCCACCTCTCTTTATTCCATGATTAAAGGGAGATACATCTGGGGACTATAAGAAAGCT  
CTTCTGCTGCTCTGTGGAGAAGATGACTAACGTGTCACGGGGAAGAGCTCCCTGCTGTGTGCCTGCACCACCCCA  
CTGCCTTCCTTCAGCACCTTTAGCTGCATTTGTATGCCAGTGCTTAACACATTGCCTTATTCATACTAGCATGCT  
CATGACCAACACATACACGTCATAGAAGAAAATAGTGGTGCTTCTTTCTGATCTCTAGTGGAGATCTCTTGACT  
GCTGTAGTACTAAAGTGACTTAATGTTACTAAGTTTAAATGCCTGGCCATTTTCATTATATATATTTTTTAAG  
AGGCTAGAGTGCTTTTAGCCTTTTTTAAAACTCCATTTATATTACATTTGTAACCATGATACTTTAATTAGAAG  
CTTAGCCTTGAAATTGTGAACCTCTTGAAATGTTATTAGTGAAGTTCGCAACTAACTAAACCTGTAAAATTATG  
ATGATTGTATTCAAAGATTAATGAAAAATAAACATTTCTGTCCCCCTGAATTAT

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**FIGURE 1490**

MAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESILTLLTSRSNAQRQEISA AFKTLFGRDLLDDLKSELTG  
KFEKLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPEELRAIKQVYEEYGSSEDDVVGDTSGYYQ  
RMLVVLLQANRDPDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVFDKYMTISGFQIEETI  
DRETSGNLEQLLLAVVKSIRSIPAYLAETLYYAMKGAGTDDHTLIRVMVSRSEIDLFNIRKEFRKNFATSLYSMI  
KGDTS GDYKALLLLCGEDD

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FIGURE 1491

CATAACAAGCCAAACGCCAGACCGAGAGTGCCTCCGTGCGCGAGTGCCCGGTGTGTGCGCGCCGGCGAGAGCAGG  
GGCCCCGCGCGCTCCCCGCGCGCGCGGCCGGAACCTCATGCAGCTCCGAGCGAGCGAGCGGCCAGCCCAGCG  
CCTCGGCCGAACCCCTCCGCAGCAGGCTGCCTGCTGTTCCCGGGGAGATCATGAACGAGGTGCGCTTCCAGC  
AGCAGTGAGGATTCTGACGACAATGGCAGCCTGTCACTACTTGGTCCCAGAATTCCCGATCCCAGCATAGGAGA  
AGCTCCTGCTCCAGACATGAAGATCGAAAGCCTTCAGAGGTGTTTAGGACAGACCTGATCACTGCCATGAAGTTG  
CATGACTCCTACCAGCTGAATCCGGATGAGTACTATGTGTGGCAGATCCCTGGAGACAGGAATGGGAGAAAGGG  
GTCCAGGTGCCTGTGAGCCCCGGGGACCATCCCTCAGCCTGTGGCCAGGGTTGTGTCTGAAGAGAAATCCCTCATG  
TTCATCAGGCCCCAAGAAGTACATCGTGTATCAGGCTCTGAGCCTCCCGAGTTGGGCTATGTGGACATCCGGACG  
CTGGCTGACAGCGTGTGTGCTATGACCTCAATGACATGGATGCTGCATGGCTGGAACGACCAATGAAGAATTT  
AAGGAGATGGGAATGCCTGAACCTAGATGAATACACCATGGAGAGGGTCCCTAGAGGAATTTGAGCAGCGATGCTAC  
GACAATATGAATCATGCCATAGAGACTGAGGAAGGCCCTGGGGATCGAATATGATGAAGATGTTGTCTGTGATGTC  
TGCCAGTCTCCTGATGGTGAGGACGGCAATGAGATGGTGTCTGTGACAAATGCAACATCTGTGTGACACAGGCC  
TGTTATGGAATCCTCAAGGTACCAGAGGGCAGCTGGCTGTGCCGGACATGTGCCCTGGGGGTTCAGCCAAATGT  
CTGCTGTGTCCGAAGAAGGGTGGAGCTATGAAGCCCACCCGTAGCGGAACCAAGTGGGTCCACGTTAGCTGTGCT  
CTGTGGATCCCTGAGGTGAGCATTTGGCAGCCAGAGAAGATGGAGCCCATCACCAGGTGTGACACATTCCCAGC  
AGCCGGTGGGGCGCTAGTGTGACGCTCTGCAATGAGAAGTTGGGGCCTCTATACAGTGTCTGTGAAGAAGTGC  
CGCACAGCCTTCCATGTGACCTGTGCTTTTGACCGGGCCTGGAGATGAAGACCATCTTAGCAGAGAATGATGAA  
GTCAAGTTCAAGTCTATTGCCCCAAGCACAGCTCACATAGGAAACCCGAGGAGAGTCTTGGCAAGGGGGCTGCA  
CAGGAGAATGGGGCCCTGAGTGTTCCTCCCGGAATCCGCTGGAGCCCTTGGCAGCCTTGAGCAGAACC GGAG  
GAGGCCACCGGGTGAGTGTCCGTAAGCAGAAGCTGCAGCAGTTGGAGGATGAGTTCTACACCTTCGTCAACCTG  
CTGGATGTTGCCAGGGCTCTGCGGCTGCCTGAGGAAGTAGTGGATTTCCTGTACCAGTACTGGAAGTTGAAGAGG  
AAGGTCAACTTCAACAAGCCCTGATCACCCTAAGAAAGATGAAGAGGACAATCTAGCCAAGCGGGAGCAGGAT  
GTCTTATTTAGGAGGCTGCAGCTGTTACGCACCTGCGGCAGGACCTGGAGAGGGTAATGATTGACACTGACACC  
TTATAGTGACTTAGAGAAGAAGATGCAAAGAGGCGAAGCCTCGCCAGAGCAAGAAATGATAGCCAGTCATATAC  
TCTCAGACCCTTGTACACACCACAGCATGAGGTGTGTTGGTTAAAAATATTTATGGGCTGGTAAACTCATTGTA  
CATATGTGCAAACTGCTACTGAGTGGGGAGCTTCTTTTGGTTTTTTTTTTTTTTAAAAACATTTCCCATTAATC  
TTTACTGTTTTGTAAAGATCAAAATGGGGTGTGCTTCCCCACCCCATTCCTTCACTTAGAGCTAGAGTGAATGA  
GCCCCAAGAAAATGACCAAGGAGTTGACTCAGCACTGAGGTTTACAGACTGATTTAGAAAACAGAACGGATTTCTAT  
TTCTAATGGAGGGGGCCAGAGATGGGAAAATTTCTGTTCAGTCCGGGGAAACACACCTAGGTGCTGGTGATGGG  
CTTATGAAGGAAGCTAAGCACGGCTGCTCACTGGCCCCACTTTGTTTCTTGGGTAAATTCAGGGGAATTTCCCA  
GTACTGTCTAGGAGCAGAGCAGGCAGTGAGGTGCTAAGTCACTAGGCTGTGTGTGTGTGTGTGTGTGCGCGTGCC  
TTACAGAAGATACTCCTGGCAGTGAGGTGCTAAGTCACTAGGCTGTGTGTGTGTGTGTGTGTGCGCGTGCC  
CGTGTCCATCCATGTCTGTGTGTGTGTGCGGGTATGGGTGGGATTCTGGTGACAGGGGTGTGAGAT  
CTGTCTGAGGAGCCCCAGTCACTGCTCAGCACGCTACAGATGTGTTGTTGTGACACTGAGATTGCTGAATGTCGT  
GGCTGTTGGCTGCCGAGCCTCAGCTGCTGGCATTTCCTTCTGCTGTTTGTGCTTTTTGTGCTCCCCACTTTCC  
ATCACCTCTGGAGTCCCCTCTGGACGTCCCTTCTGCTACAGGAATAATGAGGCGTGGGCTGCCTCCCGCTAGGG  
CCTCCTGCTCCCTGTAGGTAGTTTCTGGCTGAGGCTTGCTAATTGGGGATGCTTCTTAGAGCATCTTCCACATCA  
ACTCCCCTGGCTGCTGGCTACCGATTAAATTCATTAGTGTGAAAGAGGTGGGAGTGAGGTTTTCTGCGCTGAAGC  
AGTCTGCACTGAAAGGTACCCAAGTGGCCTGAAACAGTGTAGGGAAAGACCTGGGAAACACTGGACCAAAAAAGC  
CTGATCTCATGGAGACCTGCATGGCCCTGTTAGAGATGGCGTAGAAGTGAAGTCTTAAAGGGAGCATTAGAGAT  
CCTTTTAATACAGACTGAGTGCCAGCTTATTTGTGATGCCCTTCCCAGACCAGGTTAGGATTCTGGGAAGGC  
CGCGGATTCCGGCCCTGGAAGAGGCAGGATCCTGGAGCAGTTTTGTGAGGCTTTTGTGCTCCCATACGCCCTGTG  
GTGGTGAGTGTAAAGAAGACTTTGCCCTCTCACAACCTACATGTATGTGTGGCATTTTTGTAGAGATGAGAAAAGG  
ATTGAGAAGGATAAACTGGAATCCTGTAAGAAGCCTTTATGCCAGCCGACACCTGCTGTAATTGGGGTGCATG  
AGCTATGGAGTCAGATAGTTGTTGGGAGGGGGAGGACAAGAAGTCTATTGTTGGACTGTGTTGTCTCACAATC  
ACCACAAAATAAAAGTGTAGAAAATGCTTGTGGTGTACTAATCTTTTCTGACTTAAGTTACTCAGATTAAAT  
GCACTTCTAATTCTAACATTTTTTTTTGGAGTCATCACTGTGCTGTTTAAAGTAGAACAATGCCAACGATGTATG  
AGAAACAGGGAATAAATCAGGATTTGTGTGTGT

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**FIGURE 1492**

MKRGRLPSSSEDSDDNGSLSTTWSQNSRSQHRSSCSRHEDRKPSEVFRTDLITAMKLHDSYQLNPDEYYVLADP  
WRQEWKGVQVPVSPGTIPQFVARVVSEKSLMFIRPKKYIVSSGSEPPELGYVDIRTLADSVCRYDLNDMDAAW  
LELTNEEFKEMGMPELDEYTMERVLEEFQRCYDNMNHAIETEEGLGIEYDEDVVCDCVQSPDGEDGNEMVFCDK  
CNICVHQACYGILKVPEGSWLCRTCALGVQPKLLCPKKGAMKPTRSGTKWVHVSCALWIPEVVSIGSPEKMEPI  
TKVSHIPSSRWALVCSLCNEKFGASIQSVKNCRTAFHVTCAFDRGLEMKTILAENDEVKFKSYCPKHSSHRKPE  
ESLGKGAQENGAPCESPRNPLEPFASLEQNREEAHRVSVRKQKLOQLEDEFYTFVNLLDVARALRLPEEVVDFL  
YQYWKLRKRVNFKPLITPKKDEEDNLAKREQDVLFRRLQLFTHLRQDLERVMIDDTL

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**FIGURE 1493**

GTGAGTGTGTGTCGGTTCGCACGGCGTGTGTCTCCGGCCGCGGGTTCCGCCTCCTCCCCTGCCGCCGCTGCTCAG  
GTGTAAGTCAATGTGAAGCAGCAGCTCCAGCCCCGGGATAAACATGGCGACGTCTCTGCATGAGGGACCCACGAA  
CCAGCTGGATCTGCTCATTCCGGCCGTGGAAGCATCAGTTCACAGCAGTAATGCACACTGTACAGATAAGACAAT  
TGAAGCTGCTGAAGCCCTGCTTCATATGGAATCTCCTACCTGCTTGAGGGATTCAAGAAGTCTGTGGAAGTGTT  
TGTTCCCTCCTTGTGTATCAACTCCAGAATTCATCCATGCTGCTATGAGGCCAGATGTCATTACAGAACTGTAGT  
GGAGGTGTCAACTGAAGAGTCTGAACCCATGGATACCTCTCCTATTCCAACATCACCAGATAGCCATGAACCAAT  
GAAAAAGAAAAAAGTTGGCCGTAAACCAAAGACCCAGCAATCACCAAATTTCCAATGGGTCTCCTGAGTTAGGTAT  
AAAGAAGAAACCAAGAGAAGGAAAAGGAAACACAACCTATTGTGGGAGTTTCTTTTAGATCTACTTCAAGATAA  
AAATACTTGTCCCAGGTATATTAAATGGACTCAGAGAGAAAAAGGCATATTCAAGCTGGTGGATTCAAAGGCTGT  
CTCTAAGCTTTGGGGAAAGCATAAGAACAACCCAGACATGAACATGAAACCATGGGACGAGCTTTGAGATACTA  
CTACCAAAGGGGAATTCTTGCAAAGGTTGAAGGACAGAGGCTTGATATCAGTTCAAGGATATGCCGAAAAACAT  
AGTGGTCATAGATGATGACAAAAGTGAAACCTGTAATGAAGATTTAGCAGGAACACTGATGAAAAATCATTAGA  
ACGAGTGTCACTGTCTGCAGAAAGTCTCCTGAAAGCAGCATCCTCTGTTTCGCAGTGGAAAAAATTCATCCCCTAT  
AAACTGCTCCAGAGCAGAGAAGGGTGTAGCTAGAGTTGTGAATATCACTTCCCCTGGGCACGATGCTTCATCCAG  
GTCTCCTACTACCACTGCATCTGTGTGTCAGCAACAGCAGCTCCAAGGACAGTTCGTGTGGCAATGCAGGTACCTGT  
TGTAATGACATCATTGGGTCAGAAAATTTCAACTGTGGCAGTTCAGTCAGTTAATGCAGGTGCACCATTAAATAC  
CAGCACTAGTCCAACAACAGCGACCTCTCCAAAGGTAGTCATTGACACAATCCCCTACTGTGATGCCAGCTTCTAC  
TGAAAAATGGAGACAAAATCACCATGCAGCCTGCCAAAATTATTACCATCCCAGCTACACAGCTTGCACAGTGTCA  
ACTGCAGACAAAGTCAAATCTGACTGGATCAGGAAGCATTAAACATTGTTGGAACCCATTGGCTGTGAGAGCACT  
TACCCCTGTTTCAATAGCCCATGGTACACCTGTAATGAGACTATCAATGCCTACTCAGCAGGCATCTGGCCAGAC  
TCCTCCTCGAGTTATCAGTGCAGTCATAAAGGGGCCAGAGGTTAAATCGGAAGCAGTGGCAAAAAAGCAAGAACA  
TGATGTGAAAACCTTTGCAGCTAGTAGAAGAAAAACCAGCAGATGGAAATAAGACAGTGACCCACGTAGTGGTTGT  
CAGTGCSCCTTCAGCTATTGCCCTTCTGTAACTATGAAAACAGAAAGGACTAGTGACATGTGAGAAATAAAATAG  
CAGCTCCACCATGGACTTCAGGCTGTTAGTGGCAGTACTGACATAAACATTTGCAAGGGAAGTCATCAAGAAAAAG  
TCAAAGAAGACTTTAAAACATTTTAAATGTCATATACAAAACAAATCAGACTTACTGGAAATAAATTACCTATCCC  
ATGTTTTCAGTGGGAAATGAACTACATATTGAGATGCTGACAGAAAACCTGCCTCTTACAGTAGGAAACAACTGAAC  
CCATCAATAAGAAAAAGGATCGAAAGGGACCAAGCAGCTCAGTACGATATCAAGTTACACTAAGACTTGGAAACAC  
TAACATTCTGTAAGAGGTTATATAGTTTTTCAGTGGGAGGGGTTGGGATGGGTAATCTCATTGTTACATATAGCAA  
TTTTTGATGCATTTTATATGCATACCAGCAATTATTACTGTGTTTCGCACAGTTCCTCACTTAACTGGTGCTATGTG  
AAGACTCTGCTAATATAGGTATTTTAGAATGTGAATTGAAGAATGGATCCCAAAAACCTCAGAAAGAGGATAGCA  
AAAAAAGATCTAGTGCGATTTTATATATATATATATATATATATATACATATATATATATATATAGCTTAAG  
CTGATTTAAAACAAAGGCCTTAGACTAATTTTCGATTTTCTTTCTTGAAATAAGCTAATGGCTTGTTTGTGTAAG  
GCTTTTTTATTAAAAGAAAAATTTTAAAAATCTTGTACCTAGCACAGTATTGTTATAGAATATACATGTAACATT  
TTATATGGTAGTTTAAAGTCTGTCAGTTTCTTAATTGTGGACAAATTAACAGTTGGCTCTGGCCTTTTGTGTAAC  
ATGCCCTGTGTCACTCACTTAGCCTTGGCATTGTGTGACAGACATACCATTTTCAGTTCTGCTGTCACTTGGAAAGTTC  
AGGCTCAGCATGAATTTTTGGCAGGTAGCTCTAATACCTGGAGTTTTCTTTGTTTTTTTTTCTTTTTTTTAGTTG  
AAGTTTATGAGGGAAATACCAGTGTTTCAGTTTGAAGTATAATAGTTTGTATATTCAACATTTGAAGTATATTCT  
ATTTTGTGTACTCTTGTTCAAAGTGATTCAAGTAGGTTTTCTGAAATATAGAAATGAAATTTATCTTCTGTT  
TTGGTCTCTGGTGATATTTTAAACAATATTTAAAAGTCAGTATAGAAGTGTTTTAGTTAGGAAGTGATAAAACAT  
CTCTCTCTCCTTCCCACTACTGCATGAAGAAATCTACTTCCATTATATTAATTTGG



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**FIGURE 1494**

GCACGAGGGACTTCTGTTCCAGAGCAAAGGTCATTAGCCGCTTGAATCAGCCTTTTCCCCCACC CGGTCCCCA  
ACTTTGTTTACCCGATAAGGAAGGTCAGCATTCAAAGTCAAGAAGCGCCATTTATCTTCCCGTGC GCTCTACAAA  
TAGTTCCGTGAGAAAGATGGCCGGGAAC TCGATCCTGCTGGCTGCTGTCTCTATTCTCTCGGCCTGTCAGCAAAG  
TTATTTTGCTTTGCAAGTTGGAAAGGCAAGATTAATAACAAAGTTACGCCCCAGCAGTCACTGGGT CACCAGA  
GTTTGAGAGAGTATTTCGGGCACAACAAA CTGTGTGGAGTTTTATCCTATATTCATAATTACATTGTGGATGGC  
TGGGTGGTATTTCAACCAAGTTTTTGCTACTTGTCTGGGTCTGGTGTACATATATGGCCGTCACCTATACTTCTG  
GGGATATTCAGAAGCTGCTAAAAACGGATCACC GGTTCCGACTGAGTCTGGGGATTTTGGCCTTGTTGACCCT  
CCTAGGTGCCCTGGGAATTGCAAACAGCTTTCTGGATGAATATCTGGACCTCAATATTGCCAAGAACTGAGGCG  
GCAATTCTAACTTTTTCTCTCCCTTTAATGCTTGCAGAAGCTGTTC CACCATGAAGGTAATATGGTATCATT  
GTTAAATAAAAAATAAAGTCTTTATTCTGTTAAAAA AAAAAAAAAA

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**FIGURE 1495**

MAGNSILLAAVSILSACQSYFALQVGKARLKYKVTTPPAVTGSPEFERVFRAQQNCVEFYPIFIITLWMAGWYFN  
QVFATCLGLVYIYGRHLYFWGYSEAAKKRITGFRSLGILALLTLGALGIANSFLDEYLDLNIKKLRQF

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**FIGURE 1496**

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC  
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC  
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC  
CACTGAACTTCTGGTTCGCAAACCTTCCCTTCCAGCGTCTGGTGGAGAAATTGCTCAGGACTTTAAAACAGATCT  
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTGAAGACAC  
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACACAGCATACGTGG  
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTTCATTCTCCCATGGGGTCAAAGGTACCTAAGTATATG  
ATTGCGAGTGGA

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**FIGURE 1497**

ATGAAGAAAGGAAAGCTCATCTCTGCCACATTTCTGGAAAGCGCTGTTCCCGGTGCTCACCTATTGTCTCGCAGG  
CAGGTTTCTGAAAGGATGGAGGAAATCTGCAGGAAGCACATGTTTCTGCTTAATTCCTGCCAGCTTTTGGCTGTC  
AGACCCCAAATCCTTCAGCCACTAGCCTGTTTCAGGGCCCTGGTTTGATAACCCTGCAATTGCAGAGTGGAGTGGG  
AGGAGAAGCCTCATACCTTTGTTTTTCTGGTTCTTCCCAACACCCCTGGTGGCCTACTTGGGTGTCCACAAGCTC  
TCTGTGGAAAATAGTGCATCTCATTTAGCAACAACCTCCACCTAGCACAAAGTTCTGAGCTATACTTAAACCAGTGG  
GGAGAGAGTGTGGAATGATTAAGGCTTGCACTGCTGCAAGAAGAACCATTTTCTCTTCATGGTGCTGGAG  
GCAGAGATTGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAA  
GCCCAGAGTGCCAGCTCTGGTTTGACCCTGGAGGAGCTGGACAAGTATTGGTCTCAGCAGATTGAGGAGAGCGCC  
ACAGTGGTCACCACGCAGCCTGCCAAGGTTGGAGCTGCTGAGATGATGCTCACAGAGCTGAGACATACAGTCCAG  
TCTTTGGAGATCGACCTGGACTCCTTGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAATGGAGCAGCTCAA  
CGGCATCCTGCTGCACCCGGAGTCAGAGCTGGCACAGACCCAGAGGGACAGTGCCAGGCCAGGAGTACGAGGCC  
CTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCACCACTACTGCCGCCTGCTGGAAGATGACGAGGACTTC  
AATCTTGTGGATGGCAAAGTGGTGTCTGAGACCAATGATACCAAAGTTCTGAGACATTAA

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**FIGURE 1498**

MKKGKLISATFLESAPGAHLLSRRQVSEEMEEICRKHMFLLNSCQLLAVRPQILQPLACSGPWFDNPAIAEWSG  
RRSLIPLFFWFFPTPWPTWVSHKLSVENSASHLATTPPSTSELYLNQWGESVGMKACIRLCKKNHFLFMVLE  
AEIEALKEELLFMKKNHEEEVKGLQAQSASSGLTLEELDKYWSQQIEESATVVTTPAKVGAAEMMLTELRTVQ  
SLEIDLDSLRLNKASLENSLNGAAQRHPAAPGVRAGTDPEGQCQAQYEALLNIKVKLEAEITTYCRLEDDDEF  
NLVDGKVVSETNDTKVLRH

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**FIGURE 1499**

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGGGAGGGCCCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG  
CGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGAGGCAAGGCCGAGGATAAGGAGTG  
GATGCCCCGTCACCAAGTTGGGCCGCTTGGTCAAGGACATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTC  
TCTGCCCATTAAGGAATCAGAGATCATTGACTTTTTCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTAT  
GCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACGAGGTTCAAGGCATTTCGTTGCTATCGGGGACTACAATGG  
CCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGTGGCCACCGCCATCTGTGGGGCCATCATCCTGGCCAAGCT  
CTCCATTGTCCCCGTGCACAGAGGCTACTGGGGGAACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGAC  
AGGCCGCTGCGGCTCTGTGCTGGTGCACCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCC  
TAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCCAGCCAGGGCTGCACTGCCACCCTGGGCAA  
CTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTATCTGACCCCTGACCTCTGGAAAGAGACTGT  
ATTTACCAAGTCTCCCTATCAGGACTTCACTGACCACCTAGTCAAGACCCACACCAGAGTCTCCATGCAGCGGAC  
TCAGGCTCCAGCTGTGGCTACAACGTAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGTGTCAAAAAAA  
AAAAAAAAAAAAAAAAAAAA

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## FIGURE 1500

TGAGAACACGCTGTGTGGCTGAAAAGTGAAGGCAAGAGCTGATTGGCCTCTGTGCTCCCCCTCCGCAAGGGGATC  
GTTTTCTCCAGAAGAGCTGGATATTCTTTGCCCCAGTTATGGCAGACAAGTTAACGAGAATTGCTATTGTCAACC  
ATGACAAATGTAAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGTCCTGTAGTTTGAATGGGAAAATTAT  
GCATAGAGGTTACACCCAGAGCAAAATAGCATGGATTTCGAAACTCTTTGTATTGGTTGTGGTATCTGTATTA  
AGAAATGCCCTTTGGCGCCTTATCAATTGTCAATCTACCAAGCAACTTGGAAAAAGAAACCACACATCGATATT  
GTGCCAATGCCTTCAAACCTTACAGGTTGCCTATCCCTCGTCCAGGTGAAGTTTGGGATTAGTTGGAACATAATG  
GTATTGGAAGTCAACTGCTTTAAAAATTTTAGCAGGAAAAACAAAGCCAAACCTTGGAAAGTACGATGATCCTC  
CTGACTGGCAGGAGATTTTGACTTATTTCCGTGGATCTGAATTACAAAATTACTTTACAAAGATTCTAGAAGATG  
ACCTAAAAGCCATCATCAAACCTCAATATGTAGACCAGATTCTTAAGGCTGCAAAGGGGACAGTGGGATCTATTT  
TGGACCGAAAAGATGAAACAAAGACACAGGCAATTGTATGTCAGCAGCTTGATTTAACCCACCTAAAAGAACGAA  
ATGTTGAAGATCTTTCAGGAGGAGAGTTGCAGAGATTGCTTGTGCTGTCGTTTGCATACAGAAAGCTGATATTT  
TCATGTTTGATGAGCCTTCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGATCTCTAA  
TAAATCCAGATAGATATATCATTGTGGTGAACATGATCTAAGTGTATTAGACTATCTCTCCGACTTCATCTGCT  
GTTTATATGGTGTACCAAGCGCCTATGGAGTTGTCACTATGCCTTTTAGTGTAAGAGAAGGCATAAACATTTTTT  
TGGATGGCTATGTTCCAACAGAAAACCTTGAGATTGAGAGATGCATCACTTGTTTTTAAAGTGGCTGAGACGCA  
ATGAAGAAGAAGTTAAAAAGATGTGTATGTATAAATATCCAGGAATGAAGAAAAAATGGGAGAATTTGAGCTAG  
CAATTGTAGCTGGAGAGTTTACAGATTCTGAAATTATGGTGATGCTGGGGGAAAATGGAACGGGTAAAACGACAT  
TTATCAGAATGCTTGTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCAGTTCTAAATGTCTATAAGC  
CACAGAAAATTAGTCCCAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTATACTC  
ACCCACAATTTGTGACCGATGTAATGAAGCCTCTGCAAATTGAAAACATCATTGATCAAGAGGTGCAGACATTAT  
CTGGTGGTGAACACAGCGAGTAGCTTTAGCCCTTTGCTTGGGCAAACCTGCTGATGTCTATTTAATTGATGAAC  
CATCTGCATATTTGGATTCTGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTTTCATCTCCATGCAAAAA  
AGACAGCCTTTGTTGTGGAACATGACTTCATCATGGCCACCTATCTAGCGGATCGCGTCATCGTTTTTGATGGTG  
TTCCATCTAAGAACACAGTTGCAAACAGTCTCTCAAACCTTTTGGCTGGCATGAATAAATTTTTGTCTCAGCTTG  
AAATTACATTGAGAAGAGATCCAAACAACTATAGGCCACGAATAAACAACCTTAATTCAATTAAGGATGTAGAAC  
AAAAGAAGAGTGGAACTACTTTTTCTTGATGATTAGACTGACTCTGAGAATATTGATAAGCCATTTATTAAAA  
GGAGTATTTACTAGAAATTTTTGTCTATATAAACTTGAAATCAGGATTTTATGCCCCACATACTCTGGAACCTGAA  
GTATAATATACTTAATATAACATAAAAAGCCAGTTGGGTCTAAATTTAGTTGAAACACAGAAAATGCCACTTT  
TCTGTTCTGAAGAGGCTCTTTTGTGCATAATATTCTAAATGAAGACATTTCAAGCTATACAAATTACTTCCAA  
GTTTTTCATGATGTATGGGAAGATTTTCAGTAGGTGATTATATTACCGGTACCAAATGCTGACCAGTGTGCTCC  
ATTTTTTAAATCTTGAAAAGGGTTTCTGTACTTACCTGGTTTGCCAAGTATGCCAGTGTAAATGAAACTGCCCTTA  
TTTTAAAAGCCAGTCAAAGATTCCACTGATTGACATTTGATAAATAAACATCAGGATTATGTTTATTGTTTGT  
TCAGTCTTGCATATATTACCAGTATATGGTTTCCGAGGAAGATTATCTACTGCAAAACACCACTGTTGAAAA  
ATAGGTATTTTTAAATTTGTTTTTAAATCTTTTTTGGTGGCTTTTAAACATGTTTAGCAAAAACCAATTCAGTTCCAT  
TCCCCGCAAAAACCCCTAATTTACTCTGAACCTTTTTTGTGTTTTTGCATTCCATGAGGTTCTGTATTGAGTCAT  
TCTCTAGGTAATGTCAATTTTGTACACATATATTTATATAATCACTGATTGAGATTAGGAAAAAGCATTCTTAA  
AGAATATTTGCTTCCCTTAGAAGTACAGACTCGAAATCTTTAAAGATGGTGCCTAAGCATCTATGTATTTTTTT  
AAGTTCACAGATTTTTCTGTTGGGAGCCAGGATTATAAACCCTTCCCTAAAGGCAACATTAATGCAAAAGT  
CCCCAGATGGCAATACAAAGTATCCCTGGTACCACATATATTCATTTGTGAGTTTGGATATAGAGCACATTATC  
TAAACCATTTTGTAGTTCCAAAAACCCATCTAAATTTCTTGAGTTTCTGAATTTTGAACAGGATTACCTGGAGCC  
TGGAGCCACTTTAAGTTGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGAGTGTCTTACTAAATAAATGACT  
GGGGCAAGCAAAATTGAGGAGGAAATTAGAACTGTTTGACAACTTTAAGAGCTACTTGAAATAACAGAAGTCT  
TGATTAATGCAAAATAGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTTTAAAAATAATTTAGT  
AACCATAAATACATGTTGTAAAAAATTCAAATATACAGAATGGAATAAAAAAATGATCTCCCTTTATTACCCTC  
CCAAAGTTTACCAGCGTTTGAATTTAATAATGTATATTCTTTTCATGCTTTTTTCTGTGCACTTACCTAAGTGTGA  
ATATGTAAAGGGTTTGTGTTGTATACAAATGGGATTATACTAAAAATAAGTAATGCCTATTTTTTAAGGATAGGTTA  
AATTTGTGAATGATCATTTCAAATATATTGAATAAAAAAGCAAAAGCTATTGTTATTTACTGATCCTG

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**FIGURE 1501**

MADKLTRIAIVNHDKCKPKKCRQECKKSCPVVVMGKLCIEVTPQSKIAWISETLCIGCGICIKKCPFGALSIVNL  
PSNLEKETTHRYCANAFKLHRLPIPRPGEVLGLVGTNGIGKSTALKILAGKQKPNLGKYDDPPDWQEILTYFRGS  
ELQNYFTKILEDDLKAI IKPQYVDQIPKAAKGTVGSILDRKDETKTQAIVCQQLDLTHLKERNVEDLSGGELQRF  
ACAVVCIQKADIFMFDEPSSYLDVKQRLKAAITIRSLINPDRIIIVVEHDLVLDYLSDFICCLYGVP SAYGVVT  
MPFSVREGINIFLDGYVPTENLRFRDASLVFKVAETANEEVKKMCMYKYPGMKKMGFEFELAI VAGEFTDSEIM  
VMLGENGTGKTTFIRMLAGRLKPDEGGEVPVLNVSYKPQKISPKSTGSRVQLLHEKIRDAYTHPQFVTDVMKPLQ  
IENIIDQEVQTLSSGGELQ RVALALCLGKPADVYLIDEP SAYLDSEQLMAARVVKRFILHAKKTAFVVEHDFIMA  
TYLADRVIVFDGVPSKNTVANSPTLLAGMNKFLSQLEITFRDPNNYRPRINKLNSIKDVEQKKSGNYFFLDD



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**FIGURE 1502**

AGGAAATGAGGCTGAACCTTTGTAGTGCCCTCGCTAACCTTCAGACCAGTAAACCAGATGCTGTAGAGCAGACATG  
TATATTGGAATCTACAGAAATTGCTTTGCTTAACAACATCCCATATCATGAAGGCTTTAAAATGGCAATGAGCAA  
AGTTTTGTCTTCACTGACTCCAGAGAACTGTATCAGACCATGGATACTCACTGTCAGAATGAGATGAGCTCTGG  
AACTGGACAGAGTAATACTGTACAGAACATCCTTGAACCTTTCTACGTGTTAGATGTGTCCGAAGGCTTCTCTGT  
TCTGCCTGTTATGTCTGGCACACTTGGGCAGGTTAAACCATACAGTTCTGTGGAGAAAGACCAGCATCGTATTGC  
TCTGGACCTCATATCTGAAGCCAATCACTTTCCATAAGAAACACTTGAGTTTTGGCTGAGACATGTGGAGGATGA  
ATCTGCTATGTTACAAAGGCCAAAATCAGACAAGTTATGGAGCATAATTATATTGGATGTCATTGAGCCATCTGG  
GCTCATTCAAGCAGGAAATAATGGAAAAAGCTGCAATATCCAGGTGTTTACTACAATCTGGAGGCAAGATCTTTCC  
TCAGTATGTGCTGATGTTTTGGGTTGCTTGTGGAATCACAGACACTCCTAGAGGAGAATGCTGTTCAAGGAACAGA  
ACGTACTCTTGGATTAAATATAGCACCTTTTATTAACCAGTTTCAGGTACCTATACGTGATTTTTTGGACCTATC  
CTCATTGCCCTGTATACCTTTAAGCAAGCCAGTGGAACTCTTAAGACTAGATTTAATGACTCCGTATTTGAACAC  
CTCTAACAGAGAAGTAAAGGTATACGTTTGTAAATCTGGAAGACTGACTGCTATTCCATTTTGGTATCATATGTA  
CCTTGATGAAGAGATTAGGTTGGATACTTCAAGTGAAGCCTCCCACTGGAAACAAGCTGCAGTTGTTTTAGATAA  
TCCCATCCAGGTTGAAATGGGAGAGGAACCTTGACTCAGCATTCAAGCATCACAAAAGCAATGTCAGCATCACAGT  
AAAGCAATGAAGAGCAGTTTTTCCAATGAAAACCTGTGTAAATAGAGCATCAACAAGTACAAAATTCTTGTCTTAAT  
TAGTGGGGGTATATAAAAATTCCTTGTAATGGTCAAATATTTTTTAAATTGACATTAATAAAGCATATTTTAA  
AGATTCTAAATAAAAGGGTAGCATTATTATAGAAATACTGCTGCAGATTGCTTCTGGAAAAGGATACATCACT  
AGTTTTTTAAATTAGGAACTTCTTTTGCTCGATTTTACAGAATAGGGATTTTAAAGTCTTATCGTTATTGACA  
TGTGTAAGTAAAGCAAACTTTACTTTTGTAGGCATCTTGGCCTTTTTCTTAAATCCAACTTGTAATTGGGAA  
ACACTGAAAGGCTTCCACTGAAGACTGAGGGTTATGGTTACCTGTAAATCCAATCTTGCTTCCTTTAAATACTC  
ACTGTACATCTGAAACATCTCAGGTTTTGTTTTGAGAATGCAAGCTTGAAAAAGAATTTAAGCTATAAGCTAAAT  
GTAATTTAAACAGTAAAGGAGTTAGGGAATACATCTTCAGGAGGCAGCATTTTCTTGGTCTACTTTGGCAAAAG  
AACATTTAAAGCTGGTAACAAAACAAAGTTAAATTGAAGGAAGACTTAATCCTATACTATTTTCAAAGTTTTG  
ATTTGGATGTACAATAAGTACATTAATTGATCCAATTTTACAACTTTTGAAATAAAGGAAGATCATTATTATG  
CCTCCT

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**FIGURE 1503**

MAMSKVLSSLTPEKLYQTMTHCQNMSSGTGQSNIVQNIPEFYVLDVSEGFVLPVIAGTLGQVKPYSSVEKD  
QHRIALDLISEANHFPKETLEFWLRHVEDESAMLQRPKSKLWSIIILDVIEPSGLIQQEIMEKAAISRCLLQSG  
GKIFPQYVLMFGLLVESQTLLEENAVQGTERTLGNIAPFINQFQVP IRVFLDLSSLPCIPLSKPVELLRDLMT  
PYLNTSNREVKVYVCKSGRLTAIPFWYHMYLDEEIRLDTSEASHWKQAAVVDNPIQVEMGEELVLSIQHHKSN  
VSITVKQ

**FIGURE 1504**

[illegible]

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**FIGURE 1505**

MIAAQAKLVYQLNKYYTERCQARKAAIAKTIREVCKVVSVDVLKEVEVQEPRFISSLSEIDARYEGLEVISPTFEF  
VVLVLNQMGMVFNFVDDGSLPGCAVLKLSGGRKRSMSLWVEFITASGYLSARKIRSRFQTLVAQAVDKCSYRDVVK  
MIADTSEVKLRIRERYVVQITPAFKCTGIWPRSAQWPMFPHIPWPGPNRVAEVKAEGFNLLSKECYSLTGKQSSA  
ESDAWVLQFGEAENRLLMGGCRNKCLSVLKTLDRLHLELPGQPLNNYHMKTLLEYECEKHPRETDWDESCLGDRL  
NGILLQLISCLQCRRCPHYFLPNLDFQGKPHSALESAAKQTWRLAREILTNPKS LDKL

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**FIGURE 1506**

CGCGACTCCCACTTCCGCCCTTTTGGCTCTCTGACCAGCACCAATGGCGGTTGGCAAGAACAAGCGCCTTACGAAA  
GGCGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTTCTAAGAAAGATTGGTATGATGTGAAAGCACCT  
GCTATGTTCAATATAAGAAATATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGT  
CTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTG  
ATTACTGAAGATGTTTCAAGGGTAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAATGTGT  
TCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGT  
CTGTTCTGTGTTGGTTTTACTAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTC  
CGCCAAATCCGGAAGAAGATGATGGAATCATGACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAAT  
AAATTGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCATGATGTCTTC  
GTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGT  
AGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAA  
GAATCTGTTTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAAGTGCTATTTGTGATGGTTTGCTTCTGAAAAAA  
AAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1507**

MAVGKNKRLTKGGKKGAKKKVVDPFSSKDWYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQ  
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRNNQI  
RKTSYAQHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFEL  
GKLMELHGEGSSSGKATGDETGAVERADGYEPPVQESV

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**FIGURE 1508**

AAGTCTACATGAAAAGGATGGTTTTCTTGGAGCTTCCACAAACTTAAACCATGAAACATCTATTATTGCTACTAT  
TGTGTGTTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGTTTCTTCAGTGCCCGTGGTCATCGAC  
CCCTTGACAAGAAGAGAGAAGAGGCTCCAGCCTGAGGCTGCCCCACCGCCCATCAGTGGAGGTGGCTATCGGG  
CTCGTCCAGCCAAAGCAGCTGCCACTCAAAGAAGTAGAAAGAAAAGCCCTGATGCTGGAGGCTGTCTTCACG  
CTGACCCAGACCTGGGGGTGTTGTGTCTTACAGGATGTCAAGAGGCTTTGCTACAAACAGGAAAGGCCAA  
TCAGAAATAGTGTGATGAGTTAAATAACAATGTGGAAGCTGTTTTCCAGACCTCCTCTTCTTCTTTTTCAGTACA  
TGTAATTTGCTGAAAGACCTGTGGCAAAGAGGCAGAAGCAAGTAAAGATAATGAAATGTAGTCAATGAGTACT  
CCTCAGAACTGGAAAAGCACCAATTATATATAGATGAGACTGTGAATAGCAATATCGCAACTAACCTTCGTGTGC  
TTCGTTCAATCCTAGAAAACCTGAGAAGCAAAATACAAAAGTTAGAATCTGATGTCTCAGCTCAAATGGAATATT  
GTCGCACCCCATGCACTGTCAGTTGCAATATTCCTGTGGTGTCTGGCAAAGAATGTGAGGAAATTATCAGGAAAG  
GAGGTGAAACATCTGAAATGTATCTCATTCAACCTGACAGTTCTGTCAAACCGTATAGAGTATACTGTGACATGA  
ATACAGAAAATGGAGGATGGACAGTGTATTCAGAACCGTCAAGACGGTAGTGTGACTTTGGCAGGAAATGGGATC  
CATATAAACAGGGATTTGGAATGTTGTAACCAACACAGATGGGAAGAATTACTGTGGCCTACCAGGTGAATATT  
GGCTTGAAATGATAAAATTAGCCAGCTTACCAGGATGGGACCCACAGAACTTTTGATAGAAATGGAGGACTGGA  
AAGGAGACAAAGTAAAGGCTCACTATGGAGGATTCAGTGTACAGAATGAAGCCAACAAATACCAGATCTCAGTGA  
ACAAATACAGAGGAACAGCCGGTAATGCCCTCATGGATGGAGCATCTCAGCTGATGGGAGAAAAACAGGACCATGA  
CCATTCAACCGGCATGTTCTTCAGCACGTATGACAGAGACAATGACGGCTGGTTAACATCAGATCCCAGAAAAAC  
AGGTGTTCTAAAGAAGACGGTGGTGGATGGTGGTATAATAGATGTGATGCAGCCAATCCAAACGGCAGATACTACT  
GGGTGGACAGTACACCTGGGACATGGCAAAGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGAAGGGGT  
CATGGTACTCAATGAGGAAGATGAGTATGAAGATCAGGCCCTTCTTCCCACAGCAATAGTCCCCCAATACGTAGAT  
TTTTGCTCTTCTGTATGTGACAACATTTTTGTACATTATGTTATTGGAATTTTCTTTCATACATTATATCTCT  
AAAACCTCTCAAGCAGACGTGAGTGTGACTTTTTGAAAAAAGTATAGGATAAATTACATTAAATAGCACATGATT  
TCTTTTGTGTTTTCTTCATTCTCTTGTCTACCAAGAAGTAACAAAAGTATAGTTTTGACAGAGTTGGTGTTCATA  
ATTTCAGTTCTAGTTGATTGCGGAGAATTTTCAAATAAGGAAGAGGGGTCTTTTATCCTTGTGCTAGGAAAACCAT  
GACGGAAGGAAAAACTGATGTTTAAAAGTCCACTTTTAAACTATATTTATTTATGTAGGATCTGTCAAAGAAA  
ACTTCCAAAAAGATTTATTAATTAACCAGACTCTGTTGCAAT

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**FIGURE 1509**

MKRMVSWSFHKLKTMKHL L L L L L L L L C V F L V K S Q G V N D N E E G F F S A R G H R P L D K K R E E A P S L R P A P P P I S G G G Y R A R P  
A K A A A T Q K K V E R K A P D A G G C L H A D P D L G V L C P T G C Q L Q E A L L Q Q E R P I R N S V D E L N N N V E A V S Q T S S S S F Q Y M Y L  
L K D L W Q K R Q K Q V K D N E N V V N E Y S S E L E K H Q L Y I D E T V N S N I A T N L R V L R S I L E N L R S K I Q K L E S D V S A Q M E Y C R T  
P C T V S C N I P V V S G K E C E E I I R K G G E T S E M Y L I Q P D S S V K P Y R V Y C D M N T E N G G W T V I Q N R Q D G S V D F G R K W D P Y K  
Q G F G N V A T N T D G K N Y C G L P G E Y W L G N D K I S Q L T R M G P T E L L I E M E D W K G D K V K A H Y G G F T V Q N E A N K Y Q I S V N K Y  
R G T A G N A L M D G A S Q L M G E N R T M T I H N G M F F S T Y D R D N D G W L T S D P R K Q C S K E D G G G W W Y N R C H A A N P N G R Y Y W G G  
Q Y T W D M A K H G T D D G V V W M N W K G S W Y S M R K M S M K I R P F F P Q Q



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**FIGURE 1510**

CTACATGAAAAGGATGGTTTCTTGGAGCTCCACAAACTTAAAACCATGAAACATCTATTATTGCTACTATTGTG  
TGTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGTGAATTTTTTAAAGCATTATTATATTATTAG  
TAGTATTATTAATATAAGATGTAACATAATCATATTATGTGCTTATTTTAATGAAATTAGCATTGCTTATAGTTA  
TGAAATGGAATTGTTAACCTCTGACTTATTGTATTTAAAGAATGTTTCATAGTATTTCTTATATAAGATGGCTTA  
GCTAATGTAAGATGTGTTTTCTCACTTGCTATTCTGAGTACTGTGATTTTCATTTACTTCTAGCAATACAGG

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**FIGURE 1511A**

GTCTAGGAGCCAGCCCCACCCCTTAGAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC  
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGCGTGCCTGGCCCAAGGGTTGTG  
GAAAGACATCAATCTGCCTGCAAAGATTGAGACTGGCCCTTCTGCTCTGATGAAGACTGGAACACAAATGCCCT  
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTTACAAACAGAATAAATAAGCTCAAAAAT  
TCACTATTTGAATATCAGAAGAACAATAAGGATTCTCATTGCTTGACCACTAATATAATGGAAATTTTGAGAGGC  
GATTTTTTCCCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTGAGAGGATCTGAGAAGCAGAATTGAAGTC  
CTGAAGCGCAAAGTCATAGAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT  
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTGAGGGTCTATGCAGTAGGGCTTTAGCTCGT  
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTGATTGCCAAAGACTTACTTCCCTCT  
AGAGATAGGCAACACTTACCCTGATAAAAAATGAAACAGTTCCAGACTTGGTTCCTGGGAAATTTTAAGAGCCAG  
CTTCAGAAGGTACCCCCAGAGTGGAAAGCATTAAACAGACATGCCGAGATGAGAATGGAGTTAGAGAGACCTGGT  
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAGCCCCAGGAACCCCTAGC  
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAACCGGAACCCCTGGGAGCTCTGGGACT  
GGAGGGACTGCAACCTGGAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA  
ACTGGAAGTACTGGAACCAAAACCCCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT  
GAACGCGGAAGTCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT  
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACACCCAGACTGGGGCACATTTGAAGAG  
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGAGTACCACACAGAAAACTGGTCACTTCTAAAGGAGATAAA  
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAACCACCGCGTCTGTTATGCTCTAAACCGGT  
ACTAAGACTGTTATTGGTCTGATGGTCACAAAGAAGTTACCAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC  
TGTCCCAGGCAATGGATTTAGGCACATTGCTCTGGCATAGGTACTCTGGATGGGTTCCGCCATAGGCACCCCTGAT  
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGA AAAACATTCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT  
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTACAAATACAAAGGAATCCAGTTCTCATCACCCCT  
GGGATAGCTGAATTCCTTCCCGTGGTAAATCTTCAAGTTACAGCAAAACAATTTACTAGTAGCAGCATGTACAAC  
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA  
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTGAGAGACTGTGATGATGTCTCTCAACACATCCT  
TCAGGTACCCAAAGTGGCATTTCATATCAAGCTACCGGGATCCAGTAAGATTTTTCTGTTTTATTGCGATCAA  
GAGACCAGTTTGGGAGGATGGCTTTTGATCCAGCAAGAATGGATGGATCACTGAATTTTAACCGGACCTGGCAA  
GACTACAAGAGAGGTTTCGGCAGCCTGAATGACGAGGGGGAAGGAGAATTTCTGGCTAGGCAATGACTACCTCCAC  
TTACTAACCCAAAGGGGCTCTGTTCTTAGGGTTGAATTAGAGGACTGGGCTGGGAATGAAGCTTATGCAGAAAT  
CACTTCCGGGTAGGCTCTGAGGCTGAAGGCTATGCCCTCCAAGTCTCCTCTATGAAGGCACTGCGGGTGATGCT  
CTGATTGAGGGTTCCGTAGAGGAAGGGGCAGAGTACACCTCTCACAAACATGCAGTTCAGCACCTTTGACAGG  
GATGCAGACCAGTGGGAAGAGAAGTGTGCAGAAGTCTATGGGGGAGGCTGGGTGATATAATAACTGCCAAGCAGCC  
AATCTCAATGGAATCTACTACCCTGGGGGCTCCTATGACCCAAGGAATAACAGTCCTTATGAGATTGAGAATGGA  
GTGGTCTGGGTTTCTTTAGAGGGGCAGATTATTCCTCAGGGCTGTTTCGCATGAAAATTAGGCCCCCTTGTGACC  
CAATAGGCTGAAGAAGTGGGAATGGGAGCACTCTGTCTCTTTGCTAGAGAAGTGGAGAGAAAAATACAAAAGGTA  
AAGCAGTTGAGATTCTCTACAACCTAAAAAATTCCTAGGTGCTATTTTCTTATCCTTTGTACTGTAGCTAAATGT  
ACCTGAGACATATTAGTCTTTGAAAAATAAAGTTATGTAAGGTTTTTTTTATCTTTAAATAGCTCTGTGGGTTTT  
AACATTTTGTAAAGATATACCAAGGGCCATTGAGTACATCAGGAAAGTGGCAGACAGAAGCTTCTCTCTGCAAC  
CTTGAAGACTATTGGTTGAGAAGTCTCTTCCCATACCAACCAAAATCATAATGCCATTGGAAAGCAAAAAGTT  
GTTTTATCCATTGATTGTAATTGTTTAAAGCCAATATTTAAGGTAAAACCTCACTGAATCTAACCATAGCTGAC  
CTTTGTAGTAGAATTACAACCTTATAATTACAATGCACAATTTATAATTACAATATGTTATTTATGTCTTTTGCTA  
TGGAGCAAATCCAGGAAGGCAAGAGAAACATTCTTTCTAAATATAAATGAAAATCTATCCTTTAAACTCTTCCA  
CTAGACGTTGTAATGCACACTTATTTTTTCCCAAGGAGTAACCAATTTCTTTCTAAAACACATTTAAATTTTA  
AAACTATTTATGAATATTA AAAAAGACATAATTACACATTAATAAACAATCTCCCAAGTATTGATTTAACTTC  
ATTTTTCTAATAATCATAAACTATATCTGTGACATGCTAATTATTATTAATGTAAGTCGTTAGTTCGAAAGCC  
TCTCACTAAGTATGATCTATGCTATATTCAAAATTCACCCATTTACTTTGGTCAATATTTGATCTAAGTTGCAT  
CTTTAATCCTGGTGGTCTTGCCTTCTGATTTTTAATTTGTATCCTTTCTATTAAAGATATATTGTCAATTTTCTC

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**FIGURE 1511B**

TTGAATATGTATTAAATATCCCAAGC

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**FIGURE 1512**

MFSMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSAACKDSWPFCSDEDWNYKCPSGCRMKGLID  
EVNQDFTNRINKLKNLSFEYQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRVIEKVQ  
HIQLLQKNVRAQLVDMKRLEVDIDIKIRSCRGSCSRALAREVDLKDIEDQQKQLEQVIAKDLLPSRDRQHPLIK  
MKPVVDLVPGNFKSQLQKVPEWKALDMPQMRMELERPGGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS  
GPGSTGNRNPSSSGTGGTATWKPSSGPGSTGSWNSGSSGTSTGNQNPSPRPGSTGTWNPSSSERGSAGHWT  
ESSVSGSTGQWHSESGSFRPDSPGSGNARPNPDWGTFFEEVSGNVSPGTRREYHTEKLVTSKGDKELRTGKEKVT  
SGSTTTTRRSCSKTVTKTVIGPDGHKEVTKEVVTSEDGSDCPEAMD LGT LSGIGTLDGFRHRHPDEAAFFDTAST  
GKTFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFPSRGKSSSYSKQFTSSTS YNRGDSTFESKS  
YKMADEAGSEADHEGTHSTKRGHAKSRPVDCDDVLQTHPSGTQSGIFNIKLPSSKIFSVYCDQETSLGGWLLI  
QQRMDGSLNFNRTWQDYKRGFGSLNDEGEFEFWLGNDYLHLLTQRGSVLRVELEDWAGNEAYAEYHFRVGSEAE  
YALQVSSYEGTAGDALIEGSVEEGA EY TSHNNMQFSTFDRDADQWEENCAEVYGGGWYNNCQAANLNGIYYPGG  
SYDPRNNSPYEIEENG VVWVSFRGADYSLRAVRMKIRPLVTQ

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**FIGURE 1513**

GTCTAGGAGCCAGCCCCACCCTTAGAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC  
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGGCGTGCGTGGCCCAAGGGTTGTG  
GAAAGACATCAATCTGCCTGCAAAGATTGAGACTGGCCCTTCTGCTCTGATGAAGACTGGAATAACAATGCCCT  
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTACAAACAGAATAAATAAGCTCAAAAAT  
TCACTATTTGAATATCAGAAGACAATAAGGATTCTCATTCGTTGACCACTAATATAATGAAAATTTTGAGAGGC  
GATTTTTCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTGAGAGGATCTGAGAAGCAGAATTGAAGTC  
CTGAAGCGCAAAGTCATAGAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT  
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTCGAGGGTCATGCAGTAGGGCTTTAGCTCGT  
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTGATTGCCAAAGACTTACTTCCCTCT  
AGAGATAGGCAACACTTACCACTGATAAAAATGAAACCAGTTCAGACTTGGTTCCCGGAAATTTTAAGAGCCAG  
CTTCAGAAGGTACCCCGAGGTGGAAGGCATTAACAGACATGCCGCAGATGAGAATGGAGTTAGAGAGACCTGGT  
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAGCCCGAGGAACCTGAGC  
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAACCGGAACCTGGGAGCTCTGGAGCT  
GGAGGGACTGCAACCTGGAAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA  
ACTGGAAGTACTGGAACCAAAACCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT  
GAACGCGGAAGTGCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT  
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACAACCCAGACTGGGGCACATTTGAAGAG  
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGAGTACCACACAGAAAACTGGTCACTTCTAAAGGAGATAAA  
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAAACCACGCGTCGTTTCATGCTCTAAAACCGTT  
ACTAAGACTGTTATTGGTCTGATGGTCACAAAGAAGTTACCAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC  
TGTCGCGAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTACTCTGGATGGGTTCCGCCATAGGCACCCTGAT  
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGA AAAACATTCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT  
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCT  
GGGATAGCTGAATTCCCTTCCCGTGGTAAATCTTCAAGTTACAGCAAACAATTTACTAGTAGCACGAGTTACAAC  
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA  
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTCAGAGGTATCCACACTTCTCCTTTGGGGAAGCCT  
TCCCTGTCCCCCTAGACTAAGTTAAATATTTCTGCACAGTGTTCCCATGGCCCCCTTGCAATTCCTTCTTAACCTCT  
CTGTTACACGTCATTGAAACTACACTTTTTTGGTCTGTTTTGTGCTAGACTGTAAGTTCCTTGGGGGCAGGGCC  
TTTGTCTGTCTCATCTCTGTATTCCCAAATGCCTAACAGTACAGAGCCATGACTCAATAAATACATGTTAAATGG  
ATGAATG

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**FIGURE 1514**

MF SMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSACKDSDWPFCSDEDWNYKCPSGCRMKGLID  
EVNQDFTNRINKLKNLSFEYQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRKVIEKVQ  
HIQLLQKNVRAQLVDMKRLEVDIDIKIRSCRGSCSRALAREVDLKDYEDQQKQLEQVIAKDLLPSRDRQHPLIK  
MKPVPDLVPGNFKSQLQKVPPEWKALTDMPQMRMELERPGGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS  
GPGSTGNRNPGSSGTGGTATWKPGSSGPGSTGSWNSGSSGTGSGNQNPGSPRPGSTGTWNPSSERGSAGHWTS  
ESSVSGSTGQWHSESGSFRPDSPGSGNARPNPDWGTFFEEVSGNVSPGTRREYHTEKLVTSKGDKELRTGKEKVT  
SGSTTTTTRRSCSKTVTKTVIGPDGHKEVTKEVVTSEDGSDCPEAMD LGT LSGIGTLDGFRHRHPDEAAFFDTAST  
GKTFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFFPSRGKSSSYSKQFTSSTSYNRGDSTFESKS  
YKMADEAGSEADHEGTHSTKRGHAKSRPVRGIH TSPLGKPSLSP

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**FIGURE 1515**

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCACCCCCGGAATTTAATT  
CTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATC  
TTAGATGAAAGATTTCGGTAGTTATTGTCCAACCTACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACCAA  
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG  
ATAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAAACCAAATATGATAGACGCTGCTACTTTGAAG  
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAACACATGACTCAAGTATTCGATATTG  
CAGGAAATATATAATTCAAATAATCAAAGATTGTTAACCTGAAAGAGAAGGTAGCCCAGCTTGAAGCACAGTGC  
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA  
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCCTAGTCTACTGTGAAATCGAT  
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAGAAAACTGGATTCAA  
TATAAAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTG  
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAAGTGAAGACTGGAATGGCAGAACCAGTACTGCA  
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT  
GCTGGAGATGCCTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATAAATGGCATG  
CAGTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG  
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCT  
AATGGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCGGTGGTATTCCATGAAGAAAACCACTATGAAG  
ATAATCCCATTTCAACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGCTGGAGAC  
GTTTAAAGACCGTTTCAAAGAGATTTACTTTTTTAAAGGACTTTATCTGAACAGAGAGATATAATATTTTCC  
TATTGGACAATGGACTTGCAAAGCTTCACCTTCAATTTAAGAGCAAAAGACCCCATGTTGAAAACCTCCATAACAGT  
TTTATGCTGATGATAATTTATCTACATGCATTTCAATAAACCTTTTGTTCCTAAGACT

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**FIGURE 1516**

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLEDILHQ  
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRLIMLEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL  
KEKVAQLEAQCQEPCKDTVQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRLD  
GSVDFKKNWIQYKEGFGHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY  
RLTYAYFAGGDAGDAFDGDFGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGSWWMNKCHAGHLNGVYY  
QGGTYSKASTPNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQAGDV



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**FIGURE 1517**

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGACCCCCGGAATTTAATT  
CTCTACTTCTATGCTCTTTTATTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACGCTGCATC  
TTAGATGAAAGATTCCGGTAGTTATTGTCCAACCTACCTGTGGCATTGCAGATTTCCCTGTCTACTTATCAAACAAA  
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG  
ATAAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAAACCAAATATGATAGACGCTGCTACTTTGAAG  
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAACACATGACTCAAGTATTCGATATTTG  
CAGGAAATATATAATTCAAATAATCAAAGATTGTTAACCTGAAAGAGAAGGTAGCCCAGCTTGAAGCACAGTGC  
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA  
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCCTAGTCTACTGTGAAATCGAT  
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAGAAAACTGGATTCAA  
TATAAAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTTG  
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAACTGGAAGACTGGAATGGCAGAACCACTACTGCA  
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT  
GCTGGAGATGCCTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATATGGCATG  
CAGTTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG  
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCT  
AATGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCGGTGGTATTCCATGAAGAAAACCACTATGAAG  
ATAATCCCATTCACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGTCAGACCA  
GAGCACCTGCGGAAACAGAAATGACTCACTTTACCCTGAGGATGATTTGTAGAAAATTAAGTCTAAGTTCTA  
TTGACCCACAAAGTTTCAGAAATCTCTGAAAGTTTCTCCCTTTTCTCTTACTATATTTATTGATTTCAAGTC  
TTCTATTAAGGACATTTAGCCTTCAATGGAAATTAAGTCAATTTAGGACTGTATTTCCAAATTACTGATATCAG  
AGTTATTTAAAATTGTTTATTTGAGGAGATAACATTTCACTTTGTTCCATAATATATAATAATAAATGATTG  
ACTTT

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**FIGURE 1518**

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLEDILHQ  
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRLMLEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL  
KEKVAQLEAQCQEPCKDTVQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRLD  
GSVDFKKNWIQYKEGFGHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEDKY  
RLTYAYFAGGDAGDAFDGFDGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGSWWMMNKCHAGHLNGVYY  
QGGTYSKASTPNNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQVRPEHPAETEDSLYPE  
DDL

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**FIGURE 1519**

AGCAGCCGCCGCCAGACAGCCGCCGCCACCCGTTGCCCCGTCCCCCTGCCGCATTACAAATGCAGCCTGCTTT  
TGCAAAGTGGTACGATCGAAGGGACTGTGTCTTCACTGAATCTTGTGTTGAAGACAATAAGGATGTTAATGTAAA  
TTTTGAAAAATCCAACTTACATTAGTTGTCTTGGAGGAAGTGATAATTTAAGCATTTAAATGAAATTGGTCT  
TTTTTACTCTATTGATCCAAATGATTCCAAGCATAAAAGAACGGACAGATCAATTTTATGTTGTTTACGAAAAGG  
AGAATCTGCCAGTCATGGCCAAGGTTAACAAAAGAAAGGGCAAAGATGATGAACAACATGGGTGGGGATGAGGA  
TGTAATTTTACCAGAAGTAGATGAAGCAGGTGATGATTCACAAGACAGTGATGATGAAAAATGCCAGATCTGGA  
GTAAGAAATATTTTCATCACCTGGATTTTGAGAAAGAAA

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**FIGURE 1520**

ATGGTAACCAATGTCAACCAGAATACAAGTGGAGCTCTGTCTTTAAATCAACTGCCACACACTCACATGTCGAAG  
ATCCAAATACCCCTTGCAAATGCCTATCCCATTGCCAACGCTGATGCCCCAAGGATGCACACACTGGCTGCGTGGG  
CTGCCCTCAGAAAGATGTGCCCCGAGGAGGAAAATTACTCCTGGGCACCAGTACAATTACAGTGGATCAGAGGATT  
GCACTGAAAGAGGTGCAAGCTACCTGGTTACTTCACAAATATCTCTACCATACATACTATTATCGACTCAACATT  
AGGGTTGTCTGTGCTCAGGACACCAGAGTAAATACTGCCCCAATTCCAGAGATGTACTCCTTCTACATGTGCCCCA  
TGCTTCAGGCCTGAGCTCCGTGGCTACTCCATGGACACATCACTTATCAAACACCAGTGCAACCACCACTGCAAG  
CAAGCCAACAGGCCAGATTCAAGTCCAAGAGAGATTCTGGCAATCTTAGCAGAAGAAGTCAACAAAAACAAAGCCC  
ATCTGGACCAGAAATCCAGATGATATTACTAATGAGGAGTACAGAGAATTCTACAAGAGCTTGACTAATGACTGG  
GAAGATCACTTAAAGAAAAAGAACAATATCAAATTGTATGTATGCAGAGTTTTTCATCACGGATAACTGTGAGGAG  
CTAATCCCTGAATACCTGAACCTTCATTAGAGTGCTGGTAGACTCGGAGGATCTCCCTCTAAATATTTCCCATAG  
ATGTTACAACAAAGCAAAATTTTGAAAGTTATCAGGAAGAATTGGTCAAAAAATGCTTAGAAGTCTTTACTGAA  
CTGGCAGAAGATAAAGAGAACTACAAGAAGTTCTATGAGCAGTTCTCTGAAAACATAAAGCTTGGAATACATGAA  
GACTCTCAAAATCAGAAGAAGCTTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCT  
CTCAAGGACTACTGCACCAGAATAAGGAAAAGTAGAAATGAATCTTAA

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**FIGURE 1521**

MVTNVNQNTSGALSLNQLPHTHMSKIQIPLANAYPIANADAQGCTHWLRGLPSERCARGGKLLGTSTITVDQRI  
ALKEVQATWLLHKYLYHTYYYRLNIRVVCAQDTRVNTAPIEMYSFYMCPCFRPELRGYSMDTSLIKHQC�HHCK  
QANRPDSVPREILAILAEELNKTPIWTRNPDDITNEEYREFYKSLTNDWEDHLKKKNNIKLYVCRVFITDNCEE  
LIPEYLNFIIRVLVDSIDLPLNISHKMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSENIKLGHE  
DSQNQKKLSELLRYTSASGDEMVS�KDYCTRIRKTRNES

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**FIGURE 1522**

GATGTGGCCCGTGGCCTAGCTCGTCAAGTTGCCGTGGCGCGGAGAACTCTGCAAAACAAGAGGCTGAGGATTGCG  
TTAGAGATAAACAGTTCACGCCGGAGCCCCGTGAGGGAAGCGTCTCCGTTGGGTCCGGCCGCTCTGCGGGACTC  
TGAGGAAAAGCTCGCACCAGGTGGACGCGGATCTGTCAACATGGGTAAAGGAGACCCCAACAAGCCGCGGGGCAA  
AATGTCTCTCGTACGCCTTCTTCGTGCAGACCTGCCGGGAAGAGCACAGAAGAAACACCCGGACTCTTCCGTCAA  
TTTCGCGGAATTCTCCAAGAAGTGTTCGGAGAGATGGAAGACCATGTCTGCAAAGGAGAAGTCGAAGTTTGAAGA  
TATGGCAAAAAGTGACAAAGCTCGCTATGACAGGGAGATGAAAAATTACGTTCTCCCAAAGGTGATAAGAAGGG  
GAAGAAAAAGGACCCCAATGCTCCTAAAAGGCCACCATCTGCCTTCTTCTGCTCTGAACATCGCCCAA  
GATCAAAAGTGAACACCTGGCCTATCCATTGGGGATACTGCAAAGAAATTGGGTGAAATGTGGTCTGAGCAGTC  
AGCCAAAGATAAACCAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCATA  
TCGTGCCAAGGGCAAAAGTGAAGCAGGAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAGAACGAACC  
AGAAGATGAGGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGATGAAGAATAAATGGC  
TATCCTTTAATGATGCGTGTGGAATGTGTGTGTGCTCAGGCAATTATTTTGCTAAGAATGTGAATTCAAGTGC  
AGCTCAATACTAGCTTTCAGTATAAAAACGTACAGATTTTTGTATAGCTGATAAGATTCTCTGTAGAGAAAATAC  
TTTTAAAAATGCAGGTTGTAGCTTTTTGATGGGCTACTCATACAGTTAGATTTTACAGCTTCTGATGTTGAATG  
TTCCTAAATATTTAATGGTTTTTTAATTTCTGTGTGTATGGTAGCACAGCAAACCTTGTAGGAATTAGTATCAAT  
AGTAAATTTGGGTTTTTTAGGATGTTGCATTTCTGTTTTTTAAAAAAATTTTGTAATAAAATTATGTATATTA  
TTTCTATTGTCTTTGTCTTAATATGCTAAGTTAATTTTCACTTTAAAAAAGCCATTGAAGACCAAAAAAAAAA  
AA

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**FIGURE 1523**

MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFEDMAKSDKARYDREM  
KNYVPPKGDKKGKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAK  
LKEYEKDIAAYRAKGKSEAGKKGPGRPTGSKKKNEPEDEEEEEEEEEDEEEEEDEEE

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**FIGURE 1524**

CAGCCCCCTCTGCGGCTGCCGGGCGGGCCCCGGGCGCCCCGGGGGCTGGGGGGTGGGGGGTGGGGGAGGACGCCGAG  
CGCTGAGGCAGGGGCCCGGGCCGAGGGCGCGGGGGGCTGCGCGCACGCTGGGGCGCGTGGAGGGGCGCGGAGGG  
CGAAATGAGTCTGGTAGGTGGTTTTCCCCACCACCCGGTGGTGCACCACGAGGGCTACCCGTTTGCCGCCGCCG  
CGCCGAGCTGCCGCCGCCGCCGAGCCGCTGCAGCCATGAGGAGAACCCTACTTCCATGGCTGGCTCATCGG  
CCACCCGAGATGTGCCCCCGGACTACAGCATGGCCCTGTCCTACAGCCCCGAGTATGCCAGCGGCGCCGCCGG  
CCTGGACCACTCCCATACGGGGGGGTGCCGCCGGGCGCCGGGCCCCGGGCGCTGGGGGGGCGCGCCCGGTGAA  
GCGCCGAGGCACCGCAACCGCAAGGAGCGGCGCAGGACTCAGAGCATCAACAGCGCCTTCGCCGAAC TGCGCGA  
GTGCATCCCCAACGTACCCGCCGACACCAAACCTCTCCAAATCAAGACCCTGCGCCTGGCCACCAGCTACATCGC  
CTACCTCATGGACCTGCTGGCCAAGGACGACCAGAATGGCGAGGCGGAGGCCTTCAAGGCAGAGATCAAGAAGAC  
CGACGTGAAAGAGGAGAAGAGGAAGAAGGAGCTGAACGAAATCTTGAAAAGCACAGTGAGCAGCAACGACAAGAA  
AACCAAAGGCCGGACGGGCTGGCCGCAGCACGTCTGGGCCCTGGAGCTCAAGCAGTGAGGAGGAGGAGAAGGAGG  
AGGAGGAGAGCGCGAGTGAGCAGGGGCCAAGSCGCCAGATGCAGACCCAGGACTCCGGAAAAGCCGTCCGCGCTC  
CGCTCTGAGGACTCCTTGCAATTTGGAATCATCCGGTTTATTTATGTGCAATTTCTTCCCTCTCTTTGACCCCC  
TTTGAGGCATCTGCTCCCCGTCTCCCCCTCCAAAAAAAAGTGGATATTTGAAGAAAAGCATTCCATATTTTAAT  
ACGAAGAGGACACTCCCGTGTGCAGGCCGAATCAGACCCGGCGTGGGCGAATTCAGAAGTGCCAGGGAGAGACA  
AGCTAGAGGCTCTGCGGACTTCTGCGGGCGGCTGACAACGCGAGGGCGAGGGGAGAAAGCCATCAGGTCCTAGAC  
GTGGAAGAAAGGAGCCTACCAAAGTGTGGAGTAAAC



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**FIGURE 1525**

TTCAC TATTAA AATATTTTCCCCCAAGTCTCAAATATTGAAGAATCTCTAACCAGAAGGCACAGATCATTTCATG  
GGGATGTATAACCGAAACCAGTCCTCTCCACCGCCTGGGGATCTTCACTTTCGCAGTCTACGACTGCCTGTGACT  
CCAGAAAGACAAACTGCAGATTGGCCAAGCTGCCTGAAGACCCAGCCCGACAGCGATGCCTGTCAGCCCGCGTCG  
CCCACCAGGGCAGCTGCTCTCCCAACTCGCATGGGGGGCACCACCCGCTCGGTGCCCTAGAGCTGAGCGCAGC  
CGCGGCTCCACGGGGATCGCCAGGGCCTCAGCCCTCGCGGCCGGCGGGAGTGTTGCGGGGCAGGGACCAG  
AGCGCGATCAGAGCGGCCACCCCGATTAGGTGCGCCAGCTTCCAGTCACTGCGATGGCCACTGGGGCGCCCCT  
TCCATCCTGGTTAAATTCTCATTGTGATCCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCCGGTTCTCCG  
CCGCTCAGGCTGGGAGAGGTACCGCTCCGGGCAGGGTGGACCCCGAGCTCCGTCTCGGAGGACCTTTCGCCGGA  
GGCGAGCAGGAAGGGGTTAACCATGAGCCTCCACCCCTCACCTCCAGACCCTGGTGCCGGGCTAAGGCCTCCGC  
TTCCCTCCTGAGGTCTCATTAGGAAACCCTCACCGCTATTTTCAACATTTCTCAATCAAGTGCCTTTAAATAGA  
GCTGCACAAACAGATTGGCGGCCAAAAGCGTAGATCTTGTCACGATTGAGACCAATCCAGTATTTACGCCTTGTTT  
GCTTTGCAATTACGGGTTGGCTTGTTGGCTACGGTGCCACCGGGGCAAATCTGCAGCCGCTCGCTTCTCCTCTGC  
GCTCCGGGCGGGTGGAGGAAGCGACCCGCGGAGTCACTGCAGGGAGGAGAGGGGACGCGCGGGGGGAGGCGG  
CGGAGGGCGGAGGAGACTCGCTTGACCCCAAGGC

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**FIGURE 1526**

GGAGGCAAACAACCCATCTCTCTTGGAGAATCCACACTTCGTTTCTCTAGGTCCAGCCTAAATGTTACCTCCTC  
CAGGGAGCCTTTCCAGATACTGCTTCTCTCTCTCCCCAACTCCCTCCCACAAATGAAGTTTTCTCTTCTGAAT  
TCCTTGCTGGTACTGTCACTTATATTCTTTTGGGTAGATCTCTGGGCATGCATATGTACCTCCTGTGACTGTGG  
GTTTCTTGACAACCTAATCAATGCATTGAACAAAGGAGATGTTTAGACAACCCATATAAAATGAATAAGAGAAAT  
AGGGTGAATACCGTCTACCCCAATTGCAATCAGATTAGTTTCCTTTATTTGAAAACGATTAGAACTAGTAGAGG  
AGTTAGATGTGGCCCACTAGGGAACAAATTTTCATCTCCAAGCCGTCCTCTGGCTCGATCGGGTCTGCACTGGGT  
CTGCATCAACTTGCGCTGGCTCAGAGGGAGGCTCAGCCCCAGCCTGGCCTTCTGGTGCCCACTCCCAACATCCT  
GAGCAGGGCCGACTCTAGGCACCCACGATTAGCTGAGTGATCTAGGGCAAGGACCTAGGCGTCTCTAAGTCTTA  
GTTTCCCCATCTGAACAATGTTGGATAATGACACGTACCTGGGGTGGGCAGGCTAGAGTAAATGGGAAAATCAAAG  
CGCCAGCCAGAGCGGGTCTGCACTGTTAGTTTCTGTATTTCTCTCTCTGCTTCTGCTTTCTTCCGTTCCGTTCTA  
GCTGCCTGAAGACCCAGCCCGACAGCGATGCCTGTCTAGCCCGCTCGCCACCAGGGCAGCTGCTCTCCCACTC  
GCATGGGGGGGACACCCCGCTCGGTGCCCTAGAGCTGAGCGCAGCCGCGGCTCCACGGGGATCGCCAGGGCCT  
CAGCCCTCGCGGCCGCGGCGCGGGAGTGTTGCGGGGACGGGACAGAGCGCGATCAGAGCGGCCACCCCGATT  
TAGGTCTGCCAGCTTTCCAGTCACTGCGATGGCCACTGGGGCGCCCTTCCATCCTGGTTAAATTCTCATTGTGAT  
CCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCCGTTCTCCGCCGCTCAGGCTGGGAGAGGTCACCGCTC  
CGGGCAGGGTGGACCCCCAGCTCCGTCTCGGAGGACCTTCGCCGAGGCGAGCAGGAAGGGGTTAACCATGAGC  
CTCCACCCCTCACCTCCCAGACCTGGTGCCGGGCTAAGGCCTCCGCTTCCCTCCTGAGGTCTCATTAGGAAACC  
CTCACCCTATTTTCAACATTTCTCAATCAAGTGCCTTTAAATAGAGCTGCACAAACAGATTGGCGGCAAAGC  
GTAGATCTTGTACGATTGAGACCAATCCAGTATTTAGCCTTGTTTGCTTTGCAATTACGGGTTGGCTTGTGGC  
TACGGTGCCACCGGGGCAAATCTGCAGCCGCTCGCTTTCTCTCTGCGCTCCGGGCGGGTGGAGGAAGCGACCCG  
CGGAGTCACTGCAGGGAGGAGAGGGGGACGCGCGCGGGGGAGGCGGCGGAGGCGGAGGAGACTCGCTTGCACC  
CCAGGGCCGCGGGCACGAGAGCTGTGTTGAAGGACATACTTTTCAGGTTCTGACAGTCACTGAGCTATACGCA  
ATAATAAAGTGCGTGATTTCGCGTGTGGAACCAAGTGTCGTCTTACCGGCTTCCCTTTCTGTCCACCTTCCCT  
CTCTCTTCTACCTCCGTCTCGCTTTTCTTTCAGTGCATGTTAGCGGTTTGCTGGATTTCCTTCTCCCTCGCTGTT  
CAACTGCTAGCATGATTTGTTACATTTTCCACAGCTGTTTATCTTGTGTTGACTTTTGTACAAAGTCACTTTAA  
ATCTGCTGCAGAAAGAATAAAGCACCTAGCCCTTTGGATGGACTCCTGCAGGCGTGTGGCTGTCCCTGGCCCACT  
TTTAATTCTTTGGAGATGGCTCTTCTGTGTAAATCAGCTGCTGGGTGCGTTTCGGTCACCTCGTAGGCCAGCCTAG  
TTTGTATCAGCAGAACAGTAGTGACTCGACTCAGGTCGTAAGCCTTATATTTACAGACAATTAAATCTTGGCT  
GCTGTTGAACAAAACCTGTAATATTTACTTTGTTCTATACCGAGAAGCACTTTTAAAGT

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**FIGURE 1527**

MWIMTRTWGGQARVNGKIKAPARAGRTVSSCIFSSCLWFLPFRSSCLKTQPDSDACQPASPTRAAALPTRMGTT  
PPRCPRAERSRGSTGIARASALAAGGAGVLRGRDQSAIRAATPDLGRQLSSHCDGHWGAPSILVKFSL

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## FIGURE 1528

GAAGGAGGAGGTGGCAAATCACTTATAAATGGTGCTGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCG  
AGTGCTGTGGTTTCATGGGCCTCTGCTTTATGATGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAAAAGTGAAA  
TACTTTATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATATGTG  
GACACCAATTTGCAGAAACAGCGAGAATTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGATGG  
GCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATATTGAAGTGAAAACAAAAAAGAACAAACAGAAA  
ACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACTCCCCAGCCTCCTCGAAAGAAAAGGGCCCAGGTAGAT  
CCTACTGTTGAAAATGAGGAAACATTTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCTGAAGAGCTAAAACCA  
TGGCTTGTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTCTATCTTCTGCGGAGAAGAATGTGGAT  
TCCATTCTTGAGGACTATGCAAATTACAAGAAATCTCATGGAACACAGATAATAAGGAGTATGCAGTTAATGAA  
GTTGTGGCAGGGATAAAAGAATACTTCAACCTAATGTTGGGCACCCAGCTACTCAACAAATTTGAGAGACCACAG  
TATGCCGAAATTTCTGCAGATTGTCCCGATGCACCCATGTCCCAGGTGTATGGAGTGCACATCTCCTGAGATTA  
TCTGTACAAATTTGGAGCAATGTTGGCCTATACACCTCTGAATGAGAAGAGCCTTGCTTTATTACTCAATTATCTT  
CACGATTTCTTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTTAGTGCCAGCGATTATGAAGTGGCTCTTCCT  
GAGTACCATCGGAAAGCTGTGTGAGAGGCACCTCTCACTCACTTATGTCTGGATCTCCATAAACACATTTTTGTTC  
TTAGTCTATCTCTGTACAAACGATGTGCTTTGAAGATGTAGTGTATAACAATTGATGTTTGTCTTTCTGTTTGA  
TTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTCTCTTTTTTTTTTTTTTTTTTCAATTTCAAAGTTGCTG  
CCAGTGTTTTCAATGATGGACAACACAGGGATATGCTGTAGAGTGTGTTTATTGCCTAGTTGACAAAGCTGCTTTT  
GAATGCTGGTGGTTCTATTCTTTAACACTATGCATTTTATAATACGTGTTAATGCTACATGACAAATGCTCT  
GATTCCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAATACACTCATCCATTTGTGCTCCTTTTTTTTTTT  
AATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCATGTTGCTACTTAGGCATTTTATCTTGGCTCAA  
ATTGTTGAAGAATGGCTTGTTCACAGTTTTTGTATTTGTGCTAATGCACGTTTTAACATGATAGATGCAATGC  
ATTGTGTAGCTACTTTTCTGAAAAGTCAATCTTTTAGGAATTGTTTTTCAGATCTTCATTAAATTTTTTCCTTA  
AATTC

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**FIGURE 1529**

MRWAAPGKKTSGLQQKNIEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRAQVDPTVENEETFMNRVEVKVKIPEE  
LKPWLVDWDLITRQQLFYLPAEKNVDSILEDYANYKKSHGNTDNKEYAVNEVVAGIKEYFNLMLGTQLLNKFE  
RPQYAEILADCPDAPMSQVYGVPHLRLSVQIGAMLAYTPLNEKSLALLLNHLDFLKYLAKNSATLFSASDYEV  
ALPEYHRKAV

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**FIGURE 1530A**

CTGGGCGGCCGGGCGCGGGGAGAGGGCGCGGGAGCGGCTCGTGCGGCAGGTACCATGCGGACGCGCGAGCCCCGGC  
GAGGGCCCCGGCAGGCCCCGTCCCTGCTCGGGGGCGCGCTGAGACGGCGGGTGAGCTCCACGAGAGCGCCGTGCGC  
CACTTCGGGCGCAACTTTTGGGATTCCCGACAGTTAAGCAATGGGGAGACATTTGGCTTTGCTCCTGCTTCTGCTCC  
TTCTCTTCCAACATTTTGGAGACAGTGATGGCAGCCAACGACTTGAACAGACTCCTCTGCAGTTTACACACCTCG  
AGTACAACGTCACCGTGCAGGAGAACTCTGCAGCTAAGACTTATGTGGGGCATCCTGTCAAGATGGGTGTTTACA  
TTACACATCCAGCGTGGGAAGTAAGGTACAAAATTGTTTCCGGAGACAGTGAACCTGTTCAAAGCTGAAGAGT  
ACATTCTCGGAGACTTTTGTCTTCTAAGAATAAGGACCAAAGGAGGAAATACAGCTATTCTTAATAGAGAAGTGA  
AGGATCACTACACATTGATAGTGAAAGCACTTGAAAAAATACTAATGTGGAGGCGCGAACAAGGTCAAGGTGCG  
AGGTGCTGGATACAAATGACTTGAGACCGTTATTCTCACCACCTCATACAGCGTTTCTTTACCTGAAAACACAG  
CTATAAGGACCAAGTATCGCAAGAGTCAGCGCCACGGATGCAGACATAGGAACCAACGGGGAATTTTACTACAGTT  
TTAAAGATCGAACAGATATGTTTGCTATTACCCCAACCAAGTGGTGTGATAGTGTAACTGGTAGACTTGATTACC  
TAGAGACCAAGCTCTATGAGATGGAAATCCTCGCTGCGGACCGTGGCATGAAGTTGATGGGAGCAGTGGCATCA  
GCAGCATGGCCAAGCTAACGGTGCACATCGAACAGGCCAATGAATGTGCTCCGGTGATAACAGCAGTGCATTTGT  
CACCATCAGAACTGGACAGGGACCCAGCATATGCAATTGTGACAGTGGATGACTGCGATCAGGGTGCCAATGGTG  
ACATAGCATCTTTAAGCATCGTGGCAGGTGACCTTCTCCAGCAGTTTAGAACAGTGAGGTCTTTTCCAGGGAGTA  
AGGAGTATAAAGTCAAAGCCATCGGTGGCATTGATTGGGACAGTCATCCTTTTCGGCTACAATCTCACACTACAGG  
CTAAAGATAAAGGAACCTCGCCCCAGTTCTCTTCTGTTAAAGTCATTCACGTGACTTCTCCACAGTTCAAAGCCG  
GGCCAGTCAAGTTTGAAGGATGTTTACAGAGCAGAAATAAGTGAATTTGCTCCTCCCAACACACCTGTGGTCA  
TGGTAAAGGCCATTCTGCTTATTCCCATTTGAGGTATGTTTTTAAAGTACACCTGGAAAAGCTAAATTCAGTT  
TAAATTACAACACTGGTCTCATTTCTATTTTAGAACAGTTAAAGACAGCAGGCAGCCATTTTGAAGTTGAAG  
TAACAACAAGTGACAGAAAAGCGTCCACCAAGGTCTTGGTGAAAGTCTTAGGTGCAATAGCAATCCCCCTGAAT  
TTACCCAGACAGCGTACAAAGCTGCTTTTGATGAGAACGTGCCCATTTGGTACTACTGTCTATGAGCCTGAGTGCCG  
TAGACCTGATGAGGGTGAGAACGGGTACGTGACATACAGTATCGCAAATTTAAATCATGTGCCGTTTGCGATTG  
ACCATTTCACTGGTGCCGTGAGTACGTACAGAAAACCTGGACTACGAACTGATGCCTCGGGTTTTATACTCTGAGGA  
TTCGTGCATCAGACTGGGGCTTGCCGTACCGCGGGAAGTCAAGTCCCTTGCTACAATTACTCTCAATAAAGTTGA  
ATGACAACACACCTTTGTTTGAGAAAATAAATTGTGAAGGGACAATTTCCAGAGATCTAGGCGTGGGAGAGCAAA  
TAACCACTGTTTCTGCTATTGATGCAGATGAACCTTCAGTTGGTACAGTATCAGATTGAAGCTGGAAATGAAGTGG  
ATTTCTTTAGTTTAAACCCCACTCGGGGGTATTGTCATTAAAGCGATCGCTAATGGATGGCTTAGGTGCAAAGG  
TGCTTTTCCAGACTCTGAGAAATCAGACTACAGATGGAGAAAATTTTGCCACACCATTATATATCAACATAACAG  
TGGCTGCCAGTCAACAAGCTGGTAAACTTGCAGTGTGAAGAGACTGGTGTGGCAAATGCTGGCAGAGAAGCTCC  
TGCAGGCAAAATAAATTACACAACCAGGGAGAGGTGGAGGATATTTTCTTCGATTCTCACTCTGTCAATGCTCACA  
TACCGCAGTTTAGAAGCACTCTTCCGACTGGTATTTCAGGTAAAGGAAAACAGCCTGTGGGTTCCAGTGTAATTT  
TCATGAAGTCCACTGACCTTGACACTGGCTTCAATGGAAAAGTGGTCTATGCTGTTTCTGGAGGAAATGAGGATA  
GTTGCTTTCATGATTGATATGGAACAGGAATGCTGAAAATTTTATCTCCTCTTGACCGTGAAACAACAGACAAAT  
ACACCTGAAATATTACCGTCTATGACCTTGGGATACCCAGAAAGGCTGCGTGCGCTCTTCTACATGTCGTGGTTG  
TCGATGCCAATGATAATCCACCCGAGTTTTTACAGGAGAGCTATTTTGTGGAAGTGAGTGAAGACAAGGAGGTAC  
ATAGTGAAATCATCCAGGTTGAAGCCACAGATAAAGACCTGGGGCCCAACGGACACGTGACGTACTCAATTGTTA  
CAGACACAGACACATTTTCAATTGACAGCGTGACGGGTGTTGTTAACATCGCACGCCCTCTGGATCGAGAGCTGC  
AGCATGAGCACTCCTTAAAGATTGAGGCCAGGGACCAAGCCAGAGAAGAGCCTCAGCTGTTCTCCACTGTCGTTG  
TGAAAGTATCACTAGAAGATGTTAATGACAACCCACCTACATTTATTCCACCTAATTATCGTGTGAAAGTCCGAG  
AGGATCTTCCAGAAGGAACCGTCATCATGTGGTTAGAAGCCACGATCCTGATTTAGGTCAGTCTGGTCAGGTGA  
GATACAGCCTTCTGGACCACGGAGAAGGAACTTCGATGTGGATAAACTCAGTGGAGCAGTTAGGATCGTCCAGC  
AGTTGGACTTTGAGAAGAAGCAAGTGATAATCTCACTGTGAGGGCCAAAGACAAGGAAAGCCAGTTTCTCTGT  
CTTCTACTTGCTATGTTGAAGTTGAGGTGGTTGATGTGAATGAGAACCTGCACCCACCCGTGTTTTCCAGCTTTG  
TGGAAAAGGGGACAGTGAAAGAAGATGCACCTGTTGGTTCATTGGTAATGACGGTGTGCGCTCATGATGAGGACG  
CCAGAAGAGATGGGGAGATCCGATACTCCATTAGAGATGGCTCTGGCGTTGGTGTTTTCAAATAGGTGAAGAGA  
CAGGTGTCATAGAGACGTGAGTCGACTGGACCGTGAATCGACCTCCCATTATTGGCTAACAGTCTTTGCAACCG  
ATCAGGGTGTGCTGCCTCTTTCATCGTTCATAGAGATCTACATAGAGGTGAGGATGTCAATGACAATGCACCAC

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**FIGURE 1530B**

AGACATCAGAGCCTGTTTATTACCCAGAAATCATGGAAAATTCTCCTAAAGATGTATCTGTGGTCCAGATCGAGG  
CATTGATCCAGATTTCGAGCTCTAATGACAAGCTCATGTACAAAATTACAAGTGGAAATCCACAAGGATTCTTTT  
CAATACATCCTAAAACAGGTCTCATCACAACTACGTCAAGGAAGCTAGACCGAGAACAGCAAGATGAACACATAT  
TAGAGGTTACTGTGACAGACAATGGTAGTCCCCCAAAATCAACCATTGCAAGAGTCATTGTGAAAATCCTTGATG  
AAAATGACAACAAACCTCAGTTTCTGCAAAAGTTCTACAAAATCAGACTCCCTGAGCGGGAAAAGCCAGACCGAG  
AAAGAAATGCCAGACGGGAGCCGCTCTATCACGTCTATAGCCACCGACAAGGATGAGGGCCCCAATGCAGAAAATCT  
CCTACAGCATCGAAGACGGGAATGAGCATGGCAAATTTTTCATCGAACCGAAAACCTGGAGTGGTTTCGTCCAAGA  
GGTTTTTCAGCAGCTGGAGAATATGATATTCTTTCAATTAAGGCAGTTGACAATGGTCGCCCTCAAAAGTCATCAA  
CCACCAGACTCCATATTGAATGGATCTCCAAGCCCCAACCGTCCCTGGAGCCCATTTCATTGGAAGATCATTTT  
TTACCTTTACTGTGATGGAAAGTGACCCCGTTGCTCACATGATTGGAGTAATATCTGTGGAGCCTCCTGGCATA  
CCCTTTGGTTGACATCACTGGTGGCAACTACGACAGTCACTTCGATGTGGACAAGGGAACCTGGAACCATCATTG  
TTGCCAAACCTCTTGATGCAGAACAGAAAGTCAAACTACAACCTCACAGTCGAGGCTACAGATGGAACCACTA  
TCCTCACTCAGGTATTTCATCAAAGTAATAGACACAAATGACCATCGTCCCTCAGTTTTCTACATCAAAGTATGAAG  
TTGTTATTCCTGAAGATACAGCGCCAGAAACAGAAAATTTTGCAAAATCAGTGCTGTGGATCAGGATGAGAAAAACA  
AACTAATCTACACTCTGCAGAGCAGTAGAGATCCACTGAGTCTCAAGAAATTTCTGTTGATCCTGCAACCGGCT  
CTCTCTATACTTCTGAGAACTGGATCATGAAGCTGTTACCAGCACACCCTCACGGTCATGGTACGAGATCAAG  
ATGTGCCCTGTAACGCAACTTTGCAAGGATTGTGGTCAATGTCAGCGACACGAATGACCACGCCCGTGGTTCA  
CCGCTTCCTCTACAAAGGGCGGGTTTATGAATCGGCAGCCGTTGGCTCAGTTGTGTTGCAGGTGACGGCTCTGG  
ACAAGGACAAAGGGAAAAATGCTGAAGTGCTGACTCGATCGAGTCAGXXXXXXXXXGAAATATTGGAATTTCTT  
TTATGATTGATCCTGTCTTGGGCTCTATTAAACTGCCAAAGAATTAGATCGAAGTAACCAAGCGGAGTATGATT  
TAATGGTAAAAGCTACAGATAAGGGCAGTCCACCAATGAGTGAATAACTTCTGTGCGTATCTTTGTCACAATTG  
CTGACAACGCCTCTCCGAAGTTTACATCAAAGAATATTCTGTTGAACTTAGTGAACTGTGAGCATTGGGAGTT  
TCGTTGGGATGGTTACAGCCCATAGTCAATCATCAGTGGTGTATGAAATAAAAGATGGAATACAGGTGATGCTT  
TTGATATTAAATCCACATTCTGGAATATCATCACTCAGAAAGCCCTGGACTTTGAACTTTGCCCATTTACACAT  
TGATAATACAAGGAATAACATGGCTGGTTTGCCACTAATACAACGGTTCTAGTTCATTGTCAGGATGAGAATG  
ACAACGCGCCAGTTTTTATGCAGGCAGAAATATACAGGACTCATTAGTGAATCAGCCTCAATTAACAGCGTGGTCC  
TAACAGACAGGAATGTCCCACTGGTGATTTCGAGCAGCTGATGCTGATAAAGACTCAAATGCTTTGCTGTATATC  
ACATTGTTGAACCATCTGTACACACATATTTTGCTATTGATTCTAGCACTGGTGCTATTATACAGTACTAAGTC  
TGGACTATGAAGAAACAAGTATTTTCACTTTACCGTCCAAGTGCATGACATGGGAACCCACGTTTATTGCTG  
AGTATGCAGCGAATGTAACAGTACATGTAATTGACATTAATGACTGCCCCCTGTGTTTGCAAGCCATTATATG  
AAGCATCTCTTTTGTACCAACATACAAAGGAGTAAAGTCATCACAGTAAATGCTACAGATGCTGATTCAAGTG  
CATTCTCAGATTGATTACTCCATCACCGAAGGCAACATCGGGGAGAAGTTTTCTATGGACTACAAGACTGGTG  
CTCTCACTGTCCAAAACACAACCTCAGTTAAGAAGCCGCTACGAGCTAACCGTTAGAGCTTCCGATGGCAGATTG  
CCGGCCTTACCTCTGTCAAAATTAATGTGAAGAAAGCAAAGAAAGTCACCTAAAGTTTACCCAGGATGTCTACT  
CTGCGGTAGTGAAGAGAATTCACCCGAGGCCGAAACATTAGCTGTCTATTGCTATTGGGAATCCAATCAATG  
AGCCTTTGTTTTATCACATCCTCAACCCAGATCGCAGATTTAAAATAAGCCGCACTTCAGGAGTTCTGTCAACCA  
CTGGCACGCCCTTCGATCGTGAGCAGCAGGAGGCGTTTGATGTGGTTGTAGAAGTGACAGAGGAACATAAGCCTT  
CTGCAGTGGCCACGTTGTCGTGAAGGTCAATGTAGAAGACCAAAATGATAATGCCCGGTGTTGTCAACCTTC  
CCTACTACGCCGTTGTTAAAGTGACACTGAGGTGGGCCATGTCATTGCTATGTCACTGCTGTAGACAGAGACA  
GTGGCAGAAACGGGGAAGTGCACTTACTACCTCAAGGAACATCATGAACACTTTCAAATTGGACCTTGGGTGAAA  
TTTCACTGAAAAAGCAATTTGAGCTTGACACCTTAAATAAAGAAATATCTTGTTACAGTGGTTGCAAAAGATGGAG  
GGAACCCGGCCTTTTTCAGCGGAAGTTATCGTTCCGATCACTGTCTATGAATAAAGCCATGCCTGTGTTGAAAAAC  
CTTTCTACAGTGCAGAGATTGAGAGAGCATCCAGGTGCACAGCCCTGTGGTCCACGTGCAGGCTAACAGCCCGG  
AAGGCTGAAAGTGTTCTACAGCATCACAGACGGAGACCTTTTCAGCCAGTTCACTATTAACTTCAATACTGGAG  
TTATCAATGTCTAGCTCCTCTGGACTTTGAGGCCACCCGGCATATAAGCTGAGCATAACGCGCAACTGACTCCT  
TGACGGGCGCTCATGCTGAAGTATTTGTGGACATCATAGTAGACGACATCAATGATAACCTCCTGTGTTTGCTC  
AGCAGTCTTATGCGGTGACCTGTCTGAGGCATCTGTAATTGGAACGTCTGTTGTTCAAGTTAGAGCCACCGATT  
CTGATTCAGAACCAATAGAGGAATCTCATACCAGATGTTTGGGAATCACAGCAAGAGTCATGATCATTTTCATG

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**FIGURE 1530C**

TAGACAGCAGCACTGGCCTCATCTCACTACTCAGAACCCTGGATTACGAGCAGTCCCGGCAGCACACGATTTTTG  
TGAGGGCAGTTGATGGTGGTATGCCCACGCTGAGCAGTGATGTGATTGTACGGTGGACGTTACCGACCTCAATG  
ATAATCCACCACCTCTTTGAACAACAGATTTATGAAGCCAGAATTAGCGAGCACGCCCTCATGGGCATTTCTGTGA  
CCTGTGTAAAAGCCTATGATGCAGACAGTTTCAGACATAGACAAGTTGCAGTATTCCATTCTGTCTGGCAATGATC  
ATAAACATTTTGTCTATTGACAGTGCAACAGGGATTATCACCCCTCTCAAACCTGCACCGGCACGCCCTGAAGCCAT  
TTTACAGTCTTAACCTGTCTGATGGAGTTTTTAGAAGTTCCACCCAGGTTTCATGTAAGTGTAAATGGAG  
GCAATTTGCACAGTCTGCTTTCTTCAGAACGAATATGAAGTGGAACTAGCTGAAAACGCTCCCCCTACATACCC  
TGGTGTATGGAGGTGAAAACCTACGGATGGGGATTCTGGTATTTATGGTCACGTTACTTACCATATTGTAATGACT  
TTGCCAAAGACAGATTTTACATAAATGAGAGAGGACAGATATTTACTTTGGAAAACTTGATCGAGAAAACCCCGG  
CGGAGAAAGTGATCTCAGTCCGTTTAAATGGCTAAGGATGCTGGAGGAAAAGTTGCTTCTGCACCGTGAATGTCA  
TCCTTACAGATGACAATGACAATGCACCACAATTTTCGAGCAACCAAATACGAAGTGAATATCGGGTCCAGTGCTG  
CTAAAGGGACTTCAGTCGTTAAAGTTCTTGCAAGTGATGCCGATGAGGGCTCCAATGCCGACATCACCTATGCCA  
TTGAAGCAGACTCTGAAAGTGTAAGAGAAATTTGGAAATTAACAACTGTCCGGCGTAATCACTACAAAGGAGA  
GCCTCATTGGCTTGGAAAATGAATTTCTTCACTTTCTTTGTTAGAGCTGTGGATAATGGGTCTCCATCAAAAGAAT  
CTGTTGTTCTTGTCTATGTTAAATCCTTCCACCGGAAATGCAGCTTCCAAAATTTTCAGAACCTTTCTATACCT  
TTACAGTGTCTAGAGGACGTGCCTATTGGAACAGAGATAGATCTCATCCGAGCAGAACATAGTGGGACTGTTCTTT  
ACAGCCTGGTCAAAGGGAATACTCCAGAAAGCAATAGGGATGAGTCCTTTGTGATTGACAGACAGAGCGGGAGAC  
TGAAGTTGGAGAAGAGTCTTGATCATGAGACAACTAAGTGGTATCAGTTTTCCATACTGGCCAGGTGCACTCAAG  
ATGACCATGAGATGGTGGCTTCTGTAGATGTTAGTATCCAAGTGAAAGATGCAAATGACAACAGCCCGGTCTTTG  
AATCTAGTCCATATGAGGCATTCATTGTTGAAAACCTGCCAGGGGGAAGTAGAGTAATTCAGATCAGGGCATCTG  
ATGCTGACTCAGGAACCAACGGCCAAGTTATGTATAGCCTGGATCAGTCACAAAGTGTGGAAGTCATTGAATCCT  
TTGCCATTAACATGGAACAGGCTGGATTACAACCTTTAAAGGAACCTTGACCATGAAAAGAGAGACACTTACCAGA  
TTAAAGTGGTTGCATCAGATCATGGTGAAGATCCAGCTATCCTCCACAGCCATTGTGGATGTTACCGTCAACCG  
ATGTCAACGATAGTCCACCACGATTACGGCCGAGATCTATAAAGGGACTGTGAGTGAGGATGACCCCTAGGTG  
GGGTGATTGCCATCTTAAGTACCACGGATGCTGATTCTGAAGAGATCAACAGACAAGTTACATATTTTATAACAG  
GAGGGGATCCTTTAGGACAGTTTGTCTGTTGAACTATACAGAAATGAATGGAAGGTATATGTGAAGAAACCTCTAG  
ACAGGGAAAAAAGGGACAATTACCTTCTTACTATCACGGCAACTGATGGCACCTTCTCATCAAAAGCGATAGTTG  
AAGTGAAAGTTCTGGATGCAATGACAACAGTCCAGTTTGTGAAAAGACTTTATATTCAGACACTATTCCTGAAG  
ACGTCCTTCTTGAAAATGATCATGCAGATCTCTGCTACAGACGCAGACATCCGCTCTAACGCTGAAATTAATT  
ACACGTTATTGGGTTCAAGTGCAGAAAAATTCAACTAAATCCAGACACAGGTGAAGTGAACGTCACACCCCCC  
TTGATCGTGAGGAGCAAGCTGTTTATCATCTTCTGCTCAGGGCCACAGATGGAGGAGGAAGATTCTGCCAAGCCA  
GTATTGTGCTCACGCTAGAAGATGTGAACGATAACGCCCCGAATTCTCTGCCGATCCTTATGCCATCACCGTGT  
TTGAAAACACAGAGCCGGGAACGCTGCTGACAAGAGTGCAGGCCACAGATGCCGACGCAGGATTAATTCGGAAGA  
TTTTTACTCACTGATTGACTCTGCTGATGGGCAGTTCTCCATTAACGAATTATCTGGAATTATTCAGTTAGAAA  
AACCTTTGGACAGAGAACTCCAGGCAGTATACCCCTCTCTTTGAAAGCTGTGGATCAAGGCTTGCCAAGGAGGC  
TGACTGCCACTGGCACTGTGATTGTATCAGTTCTTGACATAAATGACAACCCCTGTGTTTGAGTACCGTGAAT  
ATGGTGCCACCGTGTCTGAGGACATTCTTGTGGAAGTGAAGTTCTTCAAGTGTATGCAGCAAGTCGGGATATTG  
AAGCAAATGCAGAAATCACCTACTCAATAAAGTGGAAATGAACATGGGAAATTCAGCATAGATTCTAAAACAG  
GGGCCGTATTTATCATTGAGAACTCTGGATTATGAGAGCTCTCATGAGTATTACCTAACAGTAGAGGCCACTGATG  
GAGGCACGCCCTTCACTGAGCGACGTTGCCACTGTGAACGTTAATGTAACAGATATCAACGATAATACCCCTGTGT  
TCAGCCAAGACACCTACAGCAGCTCATCAGTGAAGATGCCGTTCTTGAGCAGTCTGTCTATCACGTTATGGCCG  
ATGATGCCGATGGACCTTCCAACAGCCACATCCACTACTCAATTATAGATGGCAACCAAGGAAGCTCGTTACAA  
TTGACCCCGTCAGGGGAGAAGTCAAAGTGACCAAACTTCTCGACCGAGAAACGATTTTCAGGTTACACGCTCACGG  
TTCAAGCTTCTGATAATGGCAGTCCACCCAGAGTCAACACGACGACCGTGAACATCGATGTGTCCGATGTCAATG  
ACAACGCGCCCGTCTTCTCCAGGGGAACTACAGTGTCTATTATCCAGGAAAAAAGCCAGTGGGCTTCAGCGTGC  
TGCAGCTGGTAGTAACAGATGAGGATTCTTCCATAACGGTCCACCCCTTCTTTTACTATTGTAAGTGGAAATG  
ATGAGAAGGCTTTTGAAAGTTAACCAGGAGTCTCTGACATCATCTGCCATCAAGAGGAAGGAGAAAGATC  
ATTACTTACTGCAGGTGAAGGTGGCAGATAATGGAAGCCTCAGTTGTCTATCTTGACATACATTGACATTAGGG



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**FIGURE 1530D**

TAATTGAGGAGAGCATCTATCCGCCTGCGATTTTGGCCCTGGAGATTTTCATCACCTCTTCTGGAGAAGAATACT  
CAGGTGGCGTCATTGGGAAGATCCATGCCACAGACCAGGACGTGTATGATACTCTAACCTACAGTCTCGACCCCTC  
AGATGGACAACCTGTTCTCTGTTTCCAGCACAGGGGGCAAGCTGATAGCACACAAAAAGCTAGACATAGGGCAAT  
ACCTTCTCAATGTGACGCTAACAGATGGGAAGTTCAGGACGGTGGCCGACATCACAGTGCATATCAGACAAGTCA  
CACAGGAGATGTTGAACCACACCATCGCGATCCGCTTTGCCAACCTCACTCCGGAAGAATTTCGTTGGTGACTACT  
GGCGCAACTTCCAGCGAGCTTTACGGAACATCCTGGGTGTGAGGAGGAACGACATACAGATTGTTAGTTTGCAGT  
CCTCTGAACCTCACCCACATCTGGACGCTTACTTTTTGTAGAGAAACCAGGTAGTGCTCAGATCTCAACAAAAC  
AACTTCTGCACAAGATTAACCTCTCCGTGACTGACATTGAGGAAATCATTGGAGTTAGGATACTGAATGTATTCC  
AGAAACTCTGCGCGGGACTGGACTGCCCCCTGGAAGTCTGCGATGAAAAGGTGTCTGTGGATGAAAGTGTGATGT  
CAACACACAGCACAGCCAGACTGAGTTTTGTGACTCCCCGCCACCACAGGGCAGCGGTGTCTCTGCAAAGAGG  
GAAGGTGCCACCTGTCCACCATGGCTGTGAAGATGATCCGTGCCCTGAGGGATCCGAATGTGTGTCTGATCCCT  
GGGAGGAGAAACACACCTGTGTCTGTCCAGCGGCAGGTTTGGTCAGTGCCAGGGAGTTCATCTATGACACTGA  
CTGGAACAGCTACGTGAAATACCGTCTGACGGAAATGAAAACAAATTAGAGATGAACTGACCATGAGGCTCA  
GAACATATTCCACGCATGCGGTTGTCTGTATGCTCGAGGAAGTACTATAGCATCTTGAGATTTCATCATGGAA  
GGCTGCAGTACAAGTTTGAAGTGTGGAAGTGGCCCTGGAATTGTCTCTGTTCAGAGCATTGAGTCAATGATGGGC  
AGTGGCACGCAGTGGCCCTGGAAGTGAATGGAACATGCTCGCTTGGTCTAGACCAAGTTCATACTGCATCCG  
GCACAGCCCCAGGGACTCTGAAAACCTGAACCTGGATAACTATGTGTTTTTGGTGCCACATCCGTGACAGG  
GAACAAGGCATGGAAGAAGTCCCAAGTTGGTAATGGTTTTCAGGGTTGTATGGACTCCATTTATTTGAATGGC  
AGGAGCTCCCTTTAAACAGCAAACCCAGAAGCTATGCACACATCGAAGAGTCCGTGGATGTATCTCCAGGCTGCT  
TCCTGACGGCCACGGAAGACTGCGCCAGCAACCCTTGCCAGAATGGAGGCGTTTGCAATCCGTCACTGCTGGAG  
GTTATTACTGCAATGCAGTGCCTTGTACATAGGGACCCACTGTGAGATAAGCGTCAATCCGTGTTCTCCAAAGC  
CATGCCCTCTATGGGGGCACGTGTGTTGTGACAAACGGAGGCTTTGTTTGCCAGTGTAGAGGATTATATACTGGTC  
AGAGGTGTGAGCTTAGTCCATACTGCAAAGATGAACCTGTAAAGATGGCGGAACATGCTTTGACAGTTTGGATG  
GCGCCGTTTGTGAGTGTGATTCCGGTTTTAGGGGAGAAAGGTGTGAGAGTATATCGACGAGTGTCTGGAACCC  
CTTGCTGCACGGGGCCCTCTGTGAGAACACGCACGGCTCTATCACTGCAACTGCAGCCACGAGTACAGGGGAC  
GTCACTGCGAGGATGCTGCGCCCAACAGTATGTGTCCACGCCGTGGAACATTGGGTTGGCGGAAGGAATTGGAA  
TCGTTGTGTTTGTGTCAGGGATATTTTTACTGGTGGTGGTGTGTTGTTCTCTGCGGTAAGATGATTAGTCGGA  
AGAAGCATCAGGCTGAACCTAAAGACAAGCACCTGGGACCCGCTACGGCTTTCTTGCAAAGACCGTATTTTGATT  
CCAAGCTAAATAAGAACATTTACTCAGACATACCACCCAGGTGCCTGTCCGGCCTATTTCTACACCCGAGTA  
TTCCAAGTGACTCAAGAAACAATCTGGACCGAAATTCCTTCGAAGGATCTGCTATCCAGAGCATCCCGAATTCA  
GCACTTTTAACCCCGAGTCTGTGCACGGGCACCGAAAAGCAGTGGCGGTCTGCAGCGTGGCGCCAAACCTGCCTC  
CCCCACCCCTTCAACTCCCCTTCTGACAGCGACTCCATCCAGAAGCCTAGCTGGGACTTTGACTATGACACAA  
AAGTGGTGGATCTTGATCCCTGTCTTTCCAAGAAGCCTTAGAGGAAAAGCCTTCCCAGCCATACAGTGCCCGG  
AAAGCCTGTCTGAAGTGCAGTCTCTGAGCTCCTTCAGTCCGAATCGTGCGATGACAATGGGTATCACTGGGATA  
CATCAGATTGGATGCCAAGCGTTCCTCTGCCGGACATACAAGAGTTCCCCAACTATGAGGTGATTGATGAGCAGA  
CACCCCTGTACTCAGCAGATCCAAACGCCATCGATACGGACTATTACCCTGGAGGCTACGACATCGAAAGTGATT  
TTCTCCACCCCCAGAAGACTTCCCCGCAGCTGATGAGCTACCACCGTTACCGCCGAATTACGCAATCAGTTTG  
AATCCATCCACCCTCCTAGAGACATGCCGTGCCGCGGTAGCTTGGGTTCTTCATCAAGAAACCGGCAGAGGTTCA  
ACTTGAATCAGTATTTGCCCAATTTTTATCCCCTCGATATGTCTGAACCTCAAACAAAAGGCACTGGTGAGAATA  
GTACTTGTAGAGAACCCCATGCCCCCTTACCGCCAGGGTATCAAAGACACTTCGAGGCGCCCGCTGTGAGAGCA  
TGCCCATGTCTGTGTACGCTCCACCGCCTCTGCTCTGACGTGTGAGCCTGCTGCGAAGTGGAGTCCGAGGTCA  
TGATGAGTGACTATGAGAGCGGGGACGACGGCCACTTCGAAGAGGTGACGATCCCGCCCTGGATTCCCAGCAGC  
ACACGGAAGTCTGACTCTCAACTCCCCCAAAGTGCCTGACTTTAGTGAACCTAGAGGTGATGTGAGTAATCCGC  
GCTGTTCTTTGCAGCAGTGTCTCCAAGCTTTTTTGGTGAGCCGAATGGGCATGGCTGCGCTGGATCCTGCGCCT  
CTGGACGTGTAGCCATTTCCAGTGTCCCAACTACTGTCTGAGGTTTTTCATCGGCTGTGCCATTTCCCAAC  
GTCTTTTGGGATTTACATCTGTCTGTGTTAAATAATCAAACGAAAAATCAGTCTGTGTTGTGACGATGATTCA  
TGTATTTATATAGATTTGATTATTTAATTTTCTGTCTCTTTTTTTGTAAATTTTATGTACAGATTTGATTTT  
TCATAGTTTTAACTAGATTTCCAAGATATTTTGTGCATTTGTTTCAACTGAATTTTGGTGGTGTGAGTCCATTA

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**FIGURE 1530E**

TCTAGCACCCCTGATTTTTTTTTTTTTTACTATAACCAGGGTTTCATTCTGTCTTTTCCACTGAAGTGTGACATTT  
TGTTAGTACATTTTCAGTGTAGTCATTCATTTCTAGCTGTACATAGGATGAAGGAGAGATCAGATACATGAACATG  
TCTTACATGGGTTCGTGTATTTAGAATTATAAACATTTTTCATTATTGGAAAGTGTAAACGGGGACCTTCTGCATA  
CCTGTTTGAACCAAAACCACCATGACACAGTTTTTATAGTGTCTGTATATTTGTGATGCAATGGTCTTGTAAG  
GTTTTTAATGAAAACCTACCATTAGCCAGTCTTTCTTACTGACAATAAATTATTAATAAAAT

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**FIGURE 1531**

GGGGCGCTGCCCCGGTGGCTCTGGCCCCGCCGGGCCGTTGGCCCAGCCCGCCGGCCCCCTGAGCTCCGGTAGCCCCG  
CGCTGGAGAAGCTGTTTCGCCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAGGCGGGGTCTGAAGCCCATT  
TGAAGGTCAGGAGGCCCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAGCAGGAGCTGCGGGAGACTG  
AGCACTTGCTGCACGATGAGAATGAAGGTTTAAGGAACTTGACAGAGAATGAAATCACTTTGTGTCAAAAAGAAA  
TAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGATGAAAATGATTTGATCCTGG  
AAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTTGATATGTATCAGCAATATG  
CTGCATTTAAAAGATGGCATTTTGAAACCCCTGGAATATTTTCCAAGTGAAGTAGGTGGCCTTAGACATGCATCTG  
CCAGCATTGGGGGTTTCAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTTACAGAGTACAAAGAGTGCCAA  
AGACAGAAAAGCAAGGCTGCGTCCATACTAGCACCATGACTGTAGCAATATTACCCAGCCTACTGAGATTAATC  
TGGTGATTAATCCGAAAGATTTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGGGAGCAGCATGTAAATACCA  
CGGACAGTGCTGTCCGGATAGTTCATCTTCCAACAGGTGTTGTTTCTGAATGTCAACAAGAGAGATCTCAGCTGA  
AAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATGTAGAAGAAGAAATAAATAAAA  
GACAGAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGAACATATAATTTCCACAGA  
ACCGGGTCACAGATCACAGAATAACAAGACGCTGCATGATCTTGAACTTTTATGCAAGGAGATTATCTACTGG  
ATGAACTTGTACAGTCATTGAAGGAATACGCCAATTATGAATCTTTAGTAGAAATTATTTCCAAAAAGTTTAA

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**FIGURE 1532**

ATGCCGCTGCGGGTTTTTGCGGCTTTCTGCCCCCGCCGCGCGGCTTTCTGACCCTGGCCTCGCCGAATTTAGCC  
CCTGCCGTCACGGCTTTTTGGGGCTCTTTGCCCTCGCCGCGCGGCTTTTGCCGCGCAGCTTTTGCATCTTT  
CTCCCCCTGCCTCCGTGGCTTTTTGCCCCCTGAAGCCACAGCTTTTGGCCCTCGCCGCGCGGCTTTTGGCAGCT  
TTTCCCCCTGCTGCCGCGAGCTTTTGGCCCCACACCGCGAATTTTCTGCCGCGGCTTTTGTACCGCCGCC  
GTGGCTTTTTAIGGCTTTTGGCCCCCGGTTTTTCCCGCCGCGGCTTCCTGCCCGCAGCCCCGGCTTTTGCGGC  
TTTTTGCCGCGGTGGCTTTTGGCCCCCGCCACTGTGGCTTTTACGCCCTTTTCGCCCCCGCCGCGCAGGTTTT  
CCAGCCGCGGCTTCTTGCCCCACTGCCCGGGCTTTTGTGTGCTTTTGGCCCCCGCCGCGGCTTTTGTGTC  
TATTTGTCCCTGCCACCACAGCTTTTGGCCCCCGCCGCGGCTCCTTGCCCCCTACGTGGCTTCCTGTCCCCG  
CCTCCGCGGCTTTTATCACCCAGCCGCTTTTGGCCCCCGCCGCGGCTTTTGTCTCGCCGCGAGGGTT  
TTTGGCCTTCATGTCCCAACCGTCGTGGCTTTTGGCGCCCTGCTTTTGGCCCCCTGACGCGGCTTTTGC  
GGCTTTTTACCACCTCCACCGTGGCTTTTGGCGCTTTTGGCACCGGACGCCATGGCTTTTTCAGGCTTTTGC  
CCGCGCCACGGCTTTTGTGCGCCACACCGTTTAGCCCCACCGCGCTTTTGCACCCGAGCCGCATCTT  
TTTGGCGCGCGACTTCTTACCCCGCCACCGCGGTTTTTACCGCTGAGGCTTTTTCACCCGCGCTCGCGGGTT  
TTGCCCCACCGCGGTGGCTTTTGGCCCCACCGCGCGGCTCTGAGGGCGGGATTGGCAGACTCGGCTGCTAGA  
TCTACCGGCGTCTTGCTAAGGCAGCGCGACGGTCACTCTGGTCCAGCTCTCCTGGTTCGGGGGCTGCATAGA  
GCAGCGCAAGCTCGGCCCCGATGGGAGAGAAGAAGGAGAGCGGTGGAGGGGGTGACGCGGCTATTGCGGAGGGA  
GGCGCAGGGGCCGAGCCAGCCGGGTGCTGCAGCAGTGGGGCAGCTCCAGAAGCTCATTGGCATCTCCTTTGGC  
AGCCTGCGTTGGCTGCGACCAAGTGCCTGAGTCCAAAGACCTCACCCAGCAGGAGATACGGACCGTGCAGGAT  
GAGTCCGAGGGGCTCCTAGGCACAGAGGGGGCCCTGGAGGAAGAAGAGGATGGAGAGGAGCTCATTGGAGATGGC  
ATGGAAAGGTAA

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**FIGURE 1533**

ATGGATGAGGACAGCTGTGTCAATGCCAGGCCACGGGAACCTCCACTTGCTAAACAGAATGTTATCCCGGAAATC  
TGTGCCCTTCTCTGTATGCCTCTTGTCCCTTTTTTCACTGCCCTATTTCAGTAACTTCACAAATATATAATGAGCAC  
CTGCCAAGAACCATGTTCAGGCCTGGGGCAACAAACAGCCCCTGCTGTCAAGGAACCCGCAGGCTTGTGGGGCCGT  
CATGCTATCAAAGGCAGCTCCAAGAGAGACAGTGGGATGAGTGTCAAACAGATGTTTCAGCCAAGTATGGCAGG  
AGCTCAGAGGAGGCCTCATCACTTGTTCCTGGGACAGACGTCTGGCTGGTCTGCCCACCTCCCACCCAGCCCT  
CCCTGTGCGCTGCTGCCAGAATGTCTTCCTGAACACAGCTATGACTGGGCCTACTGGCCTTGGCTGTTTGATCTA  
AGCAGAGGCCTAACTGAGACTGAACTAAGCATTTCCTCTCCAGGAATTGGAATTTTGAACCACGAATGAGC  
ACCTCTGCAGCCAAGGCCCATGAGCAATGGCACCCCTGGAGGAGAAGCCCAAGAAGCAGACCTGGTTCCAGCCCT  
TTCACCGCCCGGGGTGCCACGGCCCTTTCAACGTGTATGGCAGGAGGTGTGCAGGGCATTTCAGGAGGCCTCCTGG  
CTGGCACTCGACCAATTAGTCATTCAACGCCAGGTCTGGGGCTGCTGTCTGTTGTCTCAAAGCCCATTCTGTGAA  
CACATGGTAGAGTCTCCAACCTGTTCCAGATGTCCAACCTGGTCTGCGGCACTGATGGGCTCACATATACGAAT  
GAATGCCAGCTCTGCTTGGCCCGGATCCTGTTTGAATTCTTCGGCCAAGTGAGGTACAGACCAGGGCCCTATGAA  
CACCTGCAAGCAAGACAGCCACGCAGTTGTGGGTACCTTGGAAGAATATTGGAGAATGCAAGAGAGAACAGGGC  
AGCAGTGAACCAGTTGTCCAAGACCTGGCCCAGGTTGTTGAAGAGGTCATAGGGGTTCCACAGTCTTTTCAGAAA  
CTCATATTTAAGGTTTTACTATGCCCAAACAGAAATCCTGATGGGAAAGGAAAATGCCTTGCTATATCTGTAATT  
TATCAACATGAAAACATTACGGTTTTAATCATAAAATTCAAGAGATTTAACTTGTGTTGCCATCAGTTCTCCACCA  
AGGAAAGATAAGTTGATATTGCCAGCCTTTCATGAGCTTCCTCCTAACAGTAGGCTTATCGCCTTTGCACATTCC  
TATAGCAGAGAACATAGATCTGACTGCCTTAAGGGATACCAATTTCTCTCTCTTCAAATTCATATCCTCAGT  
GGGCAAAACAGAAGCCAGAAAATCCTGCCAAAACCTTTCATCTGGTCAGGGAGTGGAGGCCGTGCTGTGCGCGCC  
CTCTTGCGGGAGCCACCAGGCAAGCATCTTAAGAGGGGCAAGCGGAAAAGGGTGTCTGTGGATCTGCCCTGTTCT  
GGTGGTTTCAGGCAGCCCTGCTTTCTTCCCGCCTGGCAGTCAGCAGGGGGGAGAGTCACTCAGAGCAAGATGGA  
GAGCCTTAG

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**FIGURE 1534**

CAGAAGAAGCCCTTTGAGGAGCACTGGAGGAAGCACACCCTGTCCCTATGTGGACGTTGGCACTGGGAAGTGCACA  
GCCAGAGAACAACACATCACACACAGGAAACAGTTGTGCTCATGTGATGGGGGCCCTCAGCACTAGGAAGGAGTGG  
ACTATTGGCACACGCAGCAGCTTGAATAAATCTGAAAGTCACTATGCTGTGTAAGAGAAGCCAAATTTAAAAAGT  
GCATGCTGTGTACAGAGGGTGTCAAGAATGCCCTCTACGTGACGGAAAGCAGATCCGTGGTTGCCTGCAGACTGG  
CAGGAGCAGATTCCAAAGGCACAGGAAGAAGCTTGTGGGTAGAATGTGTTCAATTACCTTCTGTGCATTATACCAT  
AAAAAAGCTGGTCACAAAAATGCAAAACAAAAACAAAGGTGAACTAGGATAAGATTCTCACCTGTGTGATTGG  
TAAACGTGCAGATGTGCCGTCATGCTTTGTTTTATGAAGCTGTGGGATACAAGGACTCTCATACGTCACTGTGGAA  
TGCAGAAATATTGCAGCCTCATGGAAGAGGATTTGGCAGCGTCTAACAAAACACTACATGGCATTGCCCCCTTTGACTC  
AGCAATTCTAGAATCTGCCTCAAAAAAACTCCAGCAAAGAAATGAAAGGACTTTAGGCACAGAGTTCTTTTCACA  
GCCTGCATGTGTTTGCAACAAAGTTCTTCACTGTGGCGTTTGTAATGTGGGGAAAAGAGAGATCAGGCTGGTAC  
TGTGCTGTGTAGAAAAGGAGGACGTAAGAACTCCATTTTGATCTGTACCCCGAGCGATTGTTTTGCCCTGAGA  
TGCTGTTAATCTGTAACCTTTAGCACCAGCCTTGAGCTCACAGAAACCTGTGTTGTATGGAATCAAGGTTTCAGGG  
ATCTAGGGCTGTGCAGGACGTGCCTTGTTAAGAAAATGCTTACAGGCAGTACGCTTGGTAAAAGTTATCGCCATT  
CTCCATTCTCGATAAACCAGGGGCACAATGCACTGCGGAAAGCCGAGGGACCTCTGCCCAGGAAAGCCGGGTAC  
CATCCAAGGTTTCTCCCCACTGAGATATGGCCTTGTTGGGATGGGAAAGACCTGACCATCCACCAGCCCGACACC  
GTGAAGGATCTGTGCTGAGTAGGATTAGTAAAAGAGGAAGSCCTCTGTCTCCTGCCTTCCCCTGGGAACGGAATG  
TCTCAGTATAAAACTGATCGTACATTTGTTCAATTCTGAGATAGGAGAAAACCACCCTGTGGTGGGAGGCGAGA  
CATGTTGGCCGCAATGCTGCTGTACTCTTTACTCCACTGAAATGTTTGGGTGGAGAGAAGCATAAATCTGCCT  
ACGTGCACATCTAGACATAGTACCTTCCCTTGAACCTACTTGTGACACAGATTCCCTTGCTCACATGTTTCTTG  
CTGACCTTCTCCCCACTGTCACCCTGTTCTCTGCCACATTCTCTTGCTGAGATAGTAAAAATAGTAATCAATA  
AATACTGAGGGAACCTCAGAGACCGGTGCCAGTGCGGGTCTCTGTATGCTGAGCGCCAGTCCCCTGGGCCCACTT  
TTCTTTCTCT

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**FIGURE 1535**

AATAAAGAAATAGTGCTTTAAGTCAATGAATTCCTCCTTGGGACCCACTATCGAGAACTATCAGTGGTAACGTT  
TTAAAAATGACAAATTCATCTGCTCTTGACTTGTGTGTCCTAAGATTTCCACTAAGTGTCTTCAAACCTCCCC  
CTCCCCGGCTTCTTGATAATAGAAGTTCCCGAAGGCCCGCGATTCCAGAAGATACTGTCTGGCGTGAAATTAGT  
CTCAGTAGAAAACATAAGTCCCGCGCTCTTGCTGCTGCGGTGCGCAAGCTTTTGGGCCCTCCCGAGAAAGGGAAG  
TGCATTCTCGCTTCCGTAGCGGTCTCCGCCGGTTGGGGGGAAGTAATTCCGGTTGTTGCACCATGGCGTCCATGG  
GGACCCTCGCCTTCGATGAATATGGGCGCCCTTTCTCATCATCAAGGATCAGGACCGCAAGTCCCGTCTTATGG  
GACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAATCACTTGGACCAA  
ATGGGCTTGATAAGATGATGGTGGATAAGGATGGAGATGTGACTGTAATAATGATGGGGCCACCATCTTAAGCA  
TGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAACTGTCCAAGTCTCAGGATGATGAAATTGGAGATG  
GAACCACAGGAGTGGTTGTCCTGGCTGGTGCCCTGTTAGAGAAGCGGAGCAATTGCTAGACCGAGGCATTACCC  
CAATCAGAAATAGCCGATGGCTATGAGCAGGCTGCTCGTGTGCTATTGAACACCTGGACAAGATCAGCGATAGCG  
TCCTTGTGACATAAAGGACACCGAACCCCTGATTAGACAGCAAAAACACGCTGGGCTCCAAAGTGGTCAACA  
GTTGTCACCGACAGATGGCTGAGATTGCTGTGAATGCCGTCTCACTGTAGCAGATATGGAGCGGAGAGACGTTG  
ACTTTGAGCTTATCAAAGTAGAAGGCAAAGTGGGCGGCAGGCTGGAGGACACTAACTGATTAAGGGCGTGATTG  
TGGACAAGGATTTAGTCACCCACAGATGCCAAAAAAGTGGAGATGCGAAGATTGCAATTCTCATATGTCCAT  
TTGAACCACCCAAACCAAAACAAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCTTCAGAAAT  
ACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAAGAGACTGGTGCTAACCTAGCAATTTGTCAGTGGG  
GCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACTTGCCTGCGGTTGCTGGGTAGGAGGACCTGAAA  
TTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCGAGTTCTCAGAGCTCAGAGCCGAGAAGCTGGGCT  
TTGCTGGTCTTGTACAGGAGATCTCATTGGGACAATAAGGATAAAATGCTGGTCATCGAGCAGTGAAGAAT  
CCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCTTCACGATG  
CTTTGTGTGTCATCCGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGATATCCTGTG  
CCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGCCGACGCAC  
TGGAGGTCATCCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGTCCGAGCCA  
GACAGGTGAAGGAGATGAACCTGCTCTTGGCATCGACTGTTTGCACAAGGGGACAAATGATATGAAGCAACAGC  
ATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGATTTGAAGA  
TTGATGACATTGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAACATGTAGCAAGATCCACTTCTG  
TGATTAAGTAAATGGATGTCTCGTGATGCATCTACAGTTATTTATTGTTACATCCTTTTCCAGACACTGTAGATG  
CTATAATAAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGGTACCATCTCA  
ACTGCTTTTGTATTTCATTGTATTAAAGAATCTGTTTAAACAACCTTTATCTTCTCTTCGGGTTTAAAGAACGTT  
TATTGTAACAGTAATTAAATGCTGCCTTAATTG

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**FIGURE 1536**

MASMGTLAFDEYGRPFLLIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDKDGDTVTVNDGA  
TILSMDVDHQAIAKLMVELSKSQDDEIGDGTGTVVVLGALLLEEAEQLLDRIHPRIADGYEQAAARVAIEHLDK  
ISDSVLVDIKDTEPLIQTAKTTLGSKVVNSCHRQMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLDTKLI  
KGVIVDKDFSHPQMPKKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLA  
ICQWGFDDDEANHLLQNNLPAVRWVGPEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTKDKMLVIE  
QCKNSRAVTIFIRGGNKMIIEEAKRSLHDALCVIRNLIRDNRVYGGGAAEISALAVSQEADKCPTLEQYAMRA  
FADALEVIPMALSENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGTNDMKQHVITLIGKKQQISLATQMVR  
MILKIDDIRKPGSEEE



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**FIGURE 1537**

GTATCTGTCCGGACGGAAGCAGGAAGCGGGAGCGTAGGGCCACGCCTGCGGCGCTGCTGGTTGAGGCTGTGTGGG  
TCGGGGACGGGCGGAGGCGATGGCGGAGAAGTTTGACCACCTAGAGGAGCACCTGGAGAAGTTCGTGGAGAACAT  
TCGGCAGCTCGGCATCATCGTCAGTGACTTCCAGCCCAGCAGCCAGGCCGGGCTCAACCAAAAGCTGAATTTTAT  
TGTTACTGGCTTACAGGATATTGACAAGTGCAGACAGCAGCTTCATGATAATTACTGTACCGTTAGAAGTTTTTGA  
ATATATAGATCAAGGTCGAAATCCCCAGCTCTACACCAAAGAGTGCCTGGAGAGGGCTCTAGCTAAAAATGAGCA  
AGTTAAAGGCAAGATCGACACCATGAAGAAATTTAAAGCCTGTTGATTCAAGAACTTTCTAAAGTATTTCCGGA  
AGACATGGCTAAGTATCGAAGCATCCGGGGGGAGGATCACCCGCCCTTCTTAACAGCTCACCCCTCCCTGTGTGAA  
GATCCCCCGGGACTGCGATGCGGCGTGAGGCTGGGACTGCGAGTGCTGACGCCACCTTCCTGCTGAGGTGGGACT  
GGGCCCTGGACACACCCCTCAGCCCCCTCTGTCCTCATTGTTTGGCCTCATGGGACCGAGGGGCTGGAGGAGAGGC  
GGAGCTGTGCCCCAGCTGTTCCAGCAGCTTGTCTGGCGTCAACTGGCTTTCAGAGTGCTGACCCCTCATCACTGT  
GGGGATCATTCTCTGAGGGCAGATGAGGCGCAGGAAAATAGTCTTGGAATGTTAAATATGATGGGTAAATTA  
AAAGTTTTACAACATTCTACCTAATATTTTCTTTTAACATACTTTTTCTGTTCTATTGTATTATGGTGTCCGAA  
AGCTAAATAACGACTAGGAAAAATTTTTTAAAAAAGAAAAATCAGTTTAAATGTGGGAAGTACTTAAGTGGTAT  
TATATTTTACATTTTCAAGTATAGTGATAAAGAATGTTTTAAATGTAAGTGTTCATGGATTTCATTTAGACA  
TGCCTATAATAAACTAAGTATGTGGCTTATTCCATGTAATTATTTTGTAAATATAATAAATGTGTCTTGT

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**FIGURE 1538**

MAEKFDHLEEHLEKFVENIRQLGIIVSDFQPSSQAGLNQKLNFIIVTGLQDIDKCRQQLHDITVPLEVFHEYIDQGR  
NPQLYTKECLERALAKNEQVKGKIDTMKKFKSLLIQELSKVFPEDMAKYRSIRGEDHPPS

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**FIGURE 1539**

GGGATTGTATTGCGAATGATGTGGACAACAAGCGCTGCTACCTGCTCGTCCATCAAGCCAAGAGGCTGAGCAG  
CCCCTGCATCATGGTGGTCAACCATGATGCCCTCCAGCATACCCAGGCTCCAGATAGATGTGGACGGCAGGAAAGA  
GATCCTCTTCTATGATCGAATTTTATGTGATGTCCCTTGCACTGGAGACGGCACTATGAGAAAAACATTGATGT  
TTGGAAAAAGTGGACCACCTTAAATAGCTTGCGACTACATGGCTTACAGCTGCGGATTGCAACACGCGGGGCTGA  
ACAGCTGGCTGAAGGTGGAAGGATGGTGTATCCACGTGTTCACTAAACCCTATTGAGGATGAAGCAGTCATAGC  
ATCTTTACTGGA AAAAGTGAAGGTGCTTTGGAGCTTGCTGATGTGTCTAATGAACTGCCAGGGCTGAAGTGGAT  
GCCTGGAATCACACAGTGGAAAGTAATGACGAAAGATGGGCAGTGGTTTACAGACTGGGACGCTGTTCCTCACAG  
CAGACACACCCAGATCCGACCTACCATGTTCCCTCCGAAGGACCCAGAAAAGCTGCAGGCCATGCACCTGGAGCG  
ATGCCTTAGGATATTACCCCATCATCAGAATACTGGAGGGTTTTTGTGGCAGTATTGGTGAAAAATCTTCAAT  
GCCGTGGAATAAACGTCAGCCAAAGCTTCAGGGTAAATCTGCAGAGACCAGAGAAAGCACACAGCTGAGCCCTGC  
AGATCTCACAGAAGGGAAACCCACAGATCCCTCTAAGCTGGAAGTCCGTCATTACAGGAAGTGGTGACACAGA  
AATAGCTCATGCAACTGAGGATTTAGAGAATAATGGCAGTAAGAAAGATGGCGTGTGTGGTCTCTCCATCAAA  
GAAAATGAAGTTATTTGGATTTAAAGAAGATCCATTTGTATTTATCTGAAGATGACCCATTATTTCCACCTAT  
TGAGAAATTTTATGCTTTGGATCCTTCATTCCCAAGGATGAATTTGTTAACTCGGACTACAGAAGGGAAGAAAAG  
GCAGCTCTACATGGTTTCTAAGGAGTTGCGGAATGTGCTGCTGAATAACAGTGAGAAGATGAAGGTTATTAACAC  
GGGGATCAAAGTCTGGTGTAGAAATAACAGCGGTGAAGAGTTTGACTGTGCTTTCCGGCTGGCACAGGAGGGAAT  
ATATACATTGTATCCATTTATTAAGTCAAGAAATTAATGATGATCAATGGAAGATGTTAAGATACTGTTGACCCA  
GGAAAATCCCTTTTTTAGAAAACCTCAGCAGTGAGACCTACAGTCAAGCAAAGGACCTGGCAAAGGGAAGCATCGT  
GCTGAAGTATGAACCAGATTCTGCGAATCCAGACGCTCTGCAGTGTCCCATCGTCTTATGCGGATGGCGGGGAAA  
GGCCTCCATTGCAACTTTTTGTGCCAAGAATGAACGGCTTCATTATCTCAGGATGATGGGGCTGGAGGTATTGGG  
AGAAAAGAAGAAGGAAGGGGTTATCCTCACAAATGAGAGTGCAGCCAGCACCGGACAGCCAGACAATGACGTGAC  
TGAGGGACAGAGAGCAGGAGAGCCCAACAGCCAGATGCAGAAGAGGCCAACAGTCCAGACGTGACAGCAGGCTG  
TGACCCGGCGGGGTCCATCCACCCGGTGAGCAGGCCCAAGGCAGCGGGGGCCACACCCCTCACACGCAAAAC  
TGGCTTCTTCTGGTCACTGGTGTCTGAAACCAATCCAGAGCAGCCTGTGGCCTGTAAAGCATATATTTCTAATG  
ACTGCAGACTGGTGGGATCATAGGAGCCTTCTGAATGACCAGGACTGCTTCTTTGGAGCTGATGAAATGTACT  
CTTTTAGCGTGTAGAAATCACTTGTTTTATTTGTTTTCTTTGGCCAAGCTGGGTCTAGTGTCTTTTGTGCTGGG  
AATAGACTTTCAAAGTTGTACTTCTATCAAGAAACAAAACCTGCCCTTGCAAGAAATTTTCAAGGTCTTTTGTAAAGC  
CTGTATTGGTCTTAAGGTGCAGTATTTTTAAATTATTTATATAGAAAGAAATCTATAAATCTTGGGGAAGTGT  
GTTATAAGCTTTAATAATTACATTGAGCTGCACCTCAGTGGTGTGTCATTAAACATGCAGTGGGGTTAATATCTGA  
GGCCTCAGATGACTTTGTGCCTTTTGGAAATAAAGGTTAAATAAACTCTCCAGAGTAAGA'GCTGTATCGTGAAT  
TGTCACTAATTTATGAGGGGACTTATGTGCTTTTATGAATGGAGTGCTTTACAATTTTTATTTTAAATGG  
GTTTGGGATCCTTGGAAATTTTCAATAAAATGATAAAATAT

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**FIGURE 1540**

TCCTGCTTCGCCCTCCCAGCGCCTAGAAGCCTGCAGCTCCGGAGCAGTGGCCGCGCCACGCCGGCCCCAGCGCGC  
AGAACCCTGCAGGCCCCGCCGTCCGCCCCGGGCGCGCCCGCCATGTCTACCCGCAGTTTGGATACCCCTACT  
CCTCGGCTCCCCAGTTCTTGATGGCCACCACTCCCTGAGCACGTGCTGCGAGTCCGGAGGCCGCACGCTGGCGG  
ACTCCGGGCCCCGCCCTCGGCCAGGCGCGGTCTACTGCCCGGTCTACGAGAGCCGGCTGCTGGCCACCGCGC  
GCCACGAGCTCAACTCGGCCGCGGCGCTGGGCGTCTATGGGGGTCCCTATGGCGGATCGCAGGGCTATGGCAACT  
ACGTGACCTACGGCTCGGAGGCGTCCGCCTTCTACTCGCTGAACAGCTTTGATTCCAAGGATGGTTCGGGATCTG  
CGCATGGGGGCTGGCACCAGCCGCTGCCGCCTACTACCTTACGAGCCAGCTCTGGGCCAGTACCCCTATGACA  
GGTATGGAACCATGGACAGCGGCACGCGGCGCAAGAAGCCACGCGCGAGACCACCAGCAGGCTCAAGGCCTGGC  
TGCAGGAGCACCAGCAAGAACCCTACCCACCAAGGGCGAGAAGATCATGCTGGCCATCATCACCAGATGACCC  
TCACACAGTCTCCACCTGGTTCGCCAACGCGCGCCGCGCCTCAAGAAGGAGAACAGATGACGTGGCCGCGC  
GGAACAAGTGGCGAGACGAGAAGCGGCCCTACGCGGAGGGCGAGGAGGAGGGGGCGAGGAGGAGCGCGG  
AGGAGCCCCCTCAAGAGCTCCAAGAAGCAGAGCCCGTGGGCAAGAGGAGAAGGAGCTGGAGCTTAGTGACTTGG  
ACGACTTCGACCCGCTGGAAGCAGAGCCGCGGCGTGCAGCTGAAGCCGCCCTTCCACTCCCTGGACGGCGGT  
TGGAGCGCTCCCCGCGCGCCGACGGCCCGGTCAAGGAGGCTCAGGCGCGCTCCGGATGTCTCTGGCCGCGG  
GTGGCGGAGCTGCTCTGGACGAGGACCTGGAGAGGGCCCGAGCTGTCTCCGACGCGCGCGGGCGCGGAGC  
CACTGCCGGGCGCAGAGGGCGGCCCTCAGGTCTGCGAGGCCAAGCTGGGGTTTGTGCCGGCGGGGCGCTCGGCAG  
GCCTGGAGGCTAAGCCGCGCATCTGGTCCCTGGCCACACAGCCACCGCCGCCCGCCGCCACCTCCCTGA  
GCCAGACTGAGTTTCCGTCTGTCATGCTCAAGCGCCAAGTCCCGCGGCCCTGCGGCTGTGTCTCCGCGCCCG  
CCACGTCCCCGTCTGTGGCCCTTCCCCACTCTGGCGCCCTGGACAGGCACCAGGACTCCCCGGTAACCAGTCTCA  
GAAACTGGGTGGACGGGGTCTTCCACGACCCCATCCTCAGGCACAGCACTTTGAACCAGGCCTGGGCCACCGCCA  
AGGGCGCCCTCCTGGACCCCGGGCCTCTGGGACGCTCGCTGGGGGCGGGCGCAACGTGCTGACTGCACCCCTGG  
CCCGCGCCTTTCCGCCTGCCGTGCCCCAGGACGCCCCAGCTGCAGGCGCCGCCAGGGAGCTGCTCGCCCTGCCCA  
AGGCCGGCGGCAACCCCTTCTGCGCCTGAGGCGGGCGGGTCCCGAGCCAGGAGGGAACCCGCGCTCAGGCGGAC  
GGCGCCGACTCTTTTCACTGAGTTTCCAGAGGAAGACTAGCGCGGCCACCGCAAGCCGCCAACCCACCGGAGAG  
GGGGCTTCTGAACTTGGACTCCTGGGAACATGGACAAGCCGCGCTGCCACGCCGGGGCTCCACCGCCTGGGC  
CTGAGCCTGACCGGGCCATTCCCAAATTTGGGACGCGGAAGGAGAGGCTCTCGGAGCAGAAGAGGCCAGATAACC  
TGAAGCATAAAGTTTACGTCAAAAGTTTACATGGAGAAGGCGGTTCCGTTCTGAAGCGTGGTCTGCTGTCCCCTG  
GGCGTGAGGCCTCCTGGGCCTGTGCGGCCTCCGATTTTCATCCTCAGCACGTAATGCTCACCAACAGCACTTGCAC  
TGAGTTGACTCTTGACACTCTTGACTCCATAATATGATGCTTTTTAAGATGTATGTTACACCAATAATTCCT  
GCTTCAGAGGCTAATATAACAAAACCAATAAAACCGAG

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**FIGURE 1541**

GACTGCGCGCGGCAACAGCAGACATGTCGGGGGTCCGGGGCCTGTCGCGGCTGCTGAGCGCTCGGCGCCTGGCG  
CTGGCCAAGGCGTGGCCAACAGTGTGCAAACAGGAACCCGAGGTTTTCACTTCACTGTTGATGGGAACAAGAGG  
GCATCTGCTAAAGTTTCAGATTCCATTTCTGCTCAGTATCCAGTAGTGGATCATGAATTTGATGCAGTGGTGGA  
GGCGCTGGAGGGGCGAGGCTTGCGAGCTGCATTTGGCCTTTCTGAGGCAGGGTTTAATACAGCATGTGTTACCAAG  
CTGTTTCCCTACCAGGTACACACTGTGTCAGCACAGGGAGGAATCAATGCTGCTCTGGGGAACATGGAGGAGGAC  
AACTGGAGGTGGCATTCTACGACACCGTGAAGGGCTCCGACTGGCTGGGGGACCAGGATGCCATCCACTACATG  
ACGGAGCAGGCCCCCGCCGCTGGTTCGAGCTAGAAAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAG  
ATTTATCAGCGTGCATTTGGTGACAGAGCCTCAAGTTTGGAAGGGCGGGCAGGCCCATCGGTGCTGCTGTGTG  
GCTGATCGGACTGGCCACTCGCTATTGCACACCTTATATGGAAGGCTCTGCGATATGATACCAGCTATTTGTG  
GAGTATTTTGCCTTGGATCTCCTGATGGAGAATGGGGAGTGCCGTGGTGTCTATCGCACTGTGCATAGAGGACGGG  
TCCATCCATCGCATAAGAGCAAAGAACACTGTTGTTGCCACAGGAGGCTACGGGCGCACCTACTTCAGTGCACG  
TCTGCCCACACCAGCACTGGCGACGGCACGGCCATGATCACCAGGGCAGGCCTTCTTGCCAGGACCTAGAGTTT  
GTTCAAGTTCCACCTACAGGCATATATGGTGCTGGTTGTCTCATTACGGAAGGATGTGCTGGAGAGGGCATT  
CTCATTAAACAGTCAAGGCGAAAGGTTTATGGAGCGATACGCCCTGTGCGAAGGACCTGGCGTCTAGAGATGTG  
GTGTCTCGGTCCATGACTCTGGAGATCCGAGAAGGAAGAGGCTGTGGCCCTGAGAAAGATCAGCTCTACCTGCAG  
CTGCACCACCTACCTCCAGAGCAGCTGGCCACGCGCTGCTGGCATTTCAGAGACAGCCATGATCTTCGCTGGC  
GTGGACGTACGAAGGAGCCGATCCCTGTCTCCCCACCGTGCATTATAACATGGGCGGCATTCCCACCAACTAC  
AAGGGGCAGGTCTGAGGCACGTGAATGGCCAGGATCAGATTGTGCGCGCCTGTACGCTGTGGGGAGGCCGCC  
TGTGCTCGGTACATGGTGCCAACCGCTCGGGGCAAACCTCGCTCTTGACCTGTTGTCTTTGGTGGGCATGT  
GCCCTGAGCATCGAAGAGTCATGCAGGCCTGGAGATAAAGTCCCTCCAATTAAACCAAACGCTGGGGAAGAACTC  
GTCATGAATCTTGACAAATTGAGATTGCTGATGGAAGCATAAGAACATCGGAACTGCGACTCAGCATGCAGAAG  
TCAATGCAAATCATGCTGCCGTGTTCCGTGTGGGAAGCGTGTGCAAGAAGGTTGTGGGAAAATCAGCAAGCTC  
TATGGAGACCTAAAGCACCTGAAGACGTTCCAGCGGGGAATGGTCTGGAACACGGACCTGGTGGAGACCCTGGAG  
CTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGCGCGCAT  
GCCAGGGAAGACTACAAGGTGCGGATTGATGAGTACGATTACTCCAAGCCCATCCAGGGGCAACAGAAGAAGCCC  
TTTGAGGAGCACTGGAGGAAGCACACCCTGTCTTATGTGGACGTTGGCACTGGGAAGGTCACTCTGGAATATAGA  
CCCGTGATCGACAAAACCTTTGAACGAGGCTGACTGTGCCACCGTCCCGCCAGCCATTGCTCTCTACTGATGAGAC  
AAGATGTGGTGTGACAGAATCAGCTTTGTGAATTATGTATAATAGCTCATGCATGTGTCCATGTCATAACTGTC  
TTCATACGCTTCTGCACTCTGGGGAAGAAGGAGTACATTGAAGGGAGATTGGCACCTAGTGGCTGGGAGCTTGCC  
AGGAACCCAGTGGCCAGGGAGCGTGGCACTTACCTTTGTCCCTTGCTTCATTCTTGTGAGATGATAAACTGGGC  
ACAGCTCTTAAATAAAATATAAATGA

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**FIGURE 1542**

MSGVRGLSRLLSARRLALAKAWPTVLQTGTRGFHFTVDGNKRASAKVSDSISAQYPVVDHEFDVVVGAGGAGLR  
AAFGLSEAGFNTACVTKLFPTRSHTVAAQGGINAALGNMEEDNWRWHFYDTVKGSDWLGDQDAIHYTEQAPAAV  
VELENYGMPFSRTEDGKIYQRAFGGQSLKFGKGGQAHRCVVADRTGHSLHTLYGRSLRYDTSYFVEYFALDLL  
MENGEGRGVIALCIEDGSIHRIRAKNTVVATGGYGRTYFSCTSAHTSTGDGTAMITRAGLPCQDLEFVQFHPTGI  
YGAGCLITEGCRGEGGILINSQGERFMERYAPVAKDLASRDVVSRSMTLEIREGRGCGPEKDHVYLQLHHLPEQ  
LATRLPGISETAMIFAGVDVTKEPIPVLPVHYNMGGIPTNYKGQVLRHVNGQDQIVPGLYACGEAACASVHGAN  
RLGANSLLDLVVFGACALSIEESCRPGDKVPPIKPNAGEESVMNLDKLRFADGSIRTSELRLSMQKSMQNHAAY  
FRVGSVLQEGCGKISKLYGDLKHLKTFDRGMVWNTDLVETLELQNLMLCALQTIYGAEARKESRGAHAREDYKVR  
IDEYDYSKPIQGQKKPFEEHWRKHTLSYVDVGTGKVTLEYRPVIDKTLNEADCATVPPAIRSY

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**FIGURE 1543**

CTGGAGCTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGC  
GCGCATGCCAGGGAAGACTACAAGGTGGGCCTTCTCACCACGCCCACCTGCACCTGCCTTTTCCTGCCACCTGGT  
GGGACTCAGCCCCACCCCTGCATTTTCTCTGCATTTTCTTCGTTGCCCAAAAGTAAATCCAAAAATGCCTTT  
TTCCCCCTGGTAACTTTGATCCCTGGGTTCCTCGCCATCTTCTGGATCACTGTGACCTTTTCCTTGCTTTGGGTC  
GGCATCCACTGATGCCAGCAGTGGCATCTCCAAGCCAATGTGCTTTGCTGTTAGAAGGCCAAGGTTAGAAGTGCA  
GCTAGAGTGGCAAGACCAGGAAATAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTG  
TGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTGTGGAGGAAATGCCAGTTT  
ATTAAATAACGAGTAAGCCACCGTTTCAAGCCTGCCCTGTGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGC  
C

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**FIGURE 1544**

TTTACGATATCCAAATAAACTGGACACCATCACATGGACGTGGCAAGGACCTGGAGCGCTGGAAATCCTGTGGCT  
CACGCTGTGTCTAGTTTCACAACCAAGTGGAAATCGAGTTCCTTCCTGTGTACAGCCCTTCTGAGGAGGAGAAGAG  
GAACCCCGCGCTGTATGCCAGCAACGTGCGGCGAGTCATGGCCGAGGCCTTGGGTGTCTCCGTGACTGACTACAC  
GTTTCGAGGACTGCCAGCTGGCCCTGGCGGAAGGACAGCTCCGTCTCCCGCTGACACTTGCCTTTTAGAATTTGC  
CAGGCTCGTGCGGGGCCCTCGGGCTAAAACAGAAAAGCTTGAAAAAGATCTGGACAGATACTCAGAAAGAGCCAG  
GATGAAGGGAGGAGAGAAGATAGGTATTGCGGAGTTTGCCGCTCCCTGGAAGTCCCGTTCCTGACTTGCTGGA  
AGACATGTTTTACTGTTCGACGAGAGCGGCAGCGGCGAGGTGGACCTGCGAGAGTGTGTGGTTGCCCTGTCTGT  
CGTCTGCCGCGCGGCCCGGACCCTGGACACCATCCAGCTGGCTTTCAAGATGTACGGAGCGCAAGAGGACGGCAG  
CGTCGGCGAAGGTGACCTGTCTGTCATCCTCAAGACGGCCCTGGGGGTGGCAGAGCTCACCCTGACCGACCTATT  
CCGAGCCATTGACCAAGAGGAGAAGGGGAAGATCACATTGCTGACTTCCACAGGTTTGCAGAAATGTACCCTGC  
CTTCGCAGAGGAATACCTGTACCCGGATCAGACACATTTGAAAGCTGTGCAGAGACCTCACCTGCGCCAATCCC  
AAACGGCTTCTGTGCCGATTTTCAGCCCGGAAAACCTCAGACGCTGGGCGGAAGCCTGTTGCAAGAAGCTGGATTA  
GGACCCAGGGTTGCGGAGAGACGCGGCCCTCCCGCGTGGACATCACCGCCATGAGCCTCTTTGCGAGTGACCTC  
TGGGCTCCGCTCCTCACTCCTGTGTACAGGCACTGTCTTCAGCCCGAGTTCAGGGGCTCGGGGGCTGTTTGT  
ATCTTGTCTCTTTGTGAAGTGTGTGTCAGAACCGACGCTTACTGTGCGAGAATCGGAGGGCGCGCACGCGGATCC  
CCCGCTGGCCTGGACCCCGTGGGGTCAAGTTCCTGCGGGCGGGGGGCACCGGTGCCGCCCGTGTCTCTCCA  
CGGGGCCCTGGTTTCGAGTCTCTGTACAGCCTCTTCGGCGGCAGCGTGCACCGGGCGGGCTCCGTGCACACT  
CAGCACACGCTGCCACACAGCGTGCCTTGCCTGTCACTTGGCACGAAACCTGTCTGCCTCTGTGGATCCACA  
GCCTGGCAGAGCCGAGCCGTACCTGATTTTTTCAGTGTCTTCACTGTGTGCTGGAGCTCATGATATTTTATAA  
ACTCCATTAGGTACTTCAGGAAACATGCAGCATTTTTTAAAAATGAAAATTGTTTTCTACTTCATTTTTCTCT  
TTTAGAGTCAAAGGATATTTATTTATAGCCCTTTTTTTTTTAATATAGAATCTGAGGCTGTTTGGGCTTTGACT  
TAAATTTCCATCAGGCCTCTCTCCAGCAGGTAATCCCTCTCCTTCCGCTGGGTCCCTGGGGAGGTGTGAACCA  
AGGGCTAGCCCCAAAACACTTTTTCTGCTTTTCTTAATCCTTTTCCAGTCCCTCTTTTTTTATAAACGTTGGC  
AGTTTGATGTTTCTGTTTGGGCATAACGTAATCCATTTCACTGTAGCCTAACTCCAGTCCGAGGTGGATATTG  
TTCAAATGAGCAGGGCCCGAGCTGGAAGCGCAAGGCAGCCGCGCGCTCCCTCCCTTGCCTCAGGCCAG  
GTCCCTGTCTGGAAGCGGCTGCATCTTCTGTACGCCCTGGTTCCATGGTGACTGGCGTCACGCTGCCACCCGAG  
TATGGCTGACCTTCTGCGAGAGAGAGGAGCCGAGTCTTTTGTGTTGGAAGGAGACGCTGGGCTGTGCGGTGCG  
GAGGGTGATGAGGATGTCTGGTGACAGCCGTGCGGACACCACTCCTCTCTGCAGCACTGCCTCCAGCGCCAGGG  
TCGCGGGCACATCCCACTGAGAGCGGGGTCCTGCCCATCTTAGAGTCAAAGGCAGAGGGGCTTCCAGGCCCTG  
GATGGGGTATTTTGGTGTACCTGAAGTCCCTCTGACATCACCTTGTTTTCATCATTTTTTATGACAGAATTAGAA  
ACCCATCCTTCAAGCACATAATCATCACAGACTTGAGTTTGCTTCTTAAAGCAAAGGCTCCGGGTTTGTGTTGGA  
AAATTTTTTTGATTTCTGAAATGAATTGATTTTATATTTGGGGCATCTCTATAGAAAGTGACCACCAAGGCCAG  
TAAGTACGGGAAAAAATGTTTACTAACTTCCCTCAGAGATTCTGTATACGCGTTTCTCCACTGACAGACATTTAAA  
AACAACTTCAGCTCCGTTTCAATCAATCACCTCGACTTGTTTTTAGCATGGACACTGCCAGCAGGACAGACAG  
GGATGGAGTAAACCGAAGTCAATTTAGGGCTCTTGGCGTGTGGACACAGAAGAAATCCTAGTGCAGCCTTTGG  
TAGCTAACAGTCACTGATTTTATAATTGGAGAATGCGTAAAGATTCATTTTTCAAGGAGAAGAGCCTGCAAATGG  
CCAATGAAGGAGGTAAATAAACTAAGATATTCCGAGGGAAGGGACCCAGGCCACCTCCCTTCCGAGGTCTGCAG  
ATGAAGGGTTTTTTGAATGAAATGCCACTGTGCATTTTCAGAAAAAAAATCTCTGATAAACAGACTTTGAATGG  
ATGTTTGTCTCTCTGATTCTCTTTTCTCTTCTGTCGCACTTAGAGTTGGCGGATATTGGAAGTGTGAATGTAC  
ATAGCGTTGAGTTAAACCCCTTGTGTGTGAGACAGGACGACGCGGGCCCTGGTGGCTGGGGGCCAGACCCGTG  
GGCAGGTGGGGCATGGGCCCTGGCCTGCGGGGACCTGCTGGGGTGTGAGGGCAGAGGGAGGGTTGCCATGAAGGA  
ACTTGGGATTTTCAATGGAATAAGTAAACATAAAGTCTATACTTGGG



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**FIGURE 1545**

GGCGGCTGAGAGGCGGGCGGGCGGGGGCGCCGGGCGCGGGGCGGCC**ATGT**GAGCGGCCGAGCTCCTTCACCA  
GCTTGGTGGTGGGCGTGTTTCGTGGTCTACGTGGTGACACCTGCTGGGTGATGTACGGCATCGTCTACACCGCC  
CGTGCTCCGGCGACGCCAACTGCATCCAGCCCTACCTGGCGCGGGCGGCCAAAGCTGCAGCTGAGCGTGTACACCA  
CGACGAGGTCCCACCTGGGTGCTGAGAACAACATCGACCTGGTCTTGAATGTGGAAGACTTTGATGTGGAGTCCA  
AATTTGAAAGGACAGTTAATGTTTCTGTACCAAAGAAAACGAGAAACAATGGGACGCTGTATGCCTACATCTTCC  
TCCATCACGCTGGGGTCCCTGCCGTGGCAGCAGCGGAAGCAGGTGCACCTGGTCAGTCCTCTGACCACCTACATGG  
TCCCCAAGCCAGAAGAAATCAACCTGCTCACCGGGGAGTCTGATACACAGCAGATCGAGGCGGAGAAGAAGCCGA  
CGAGTGGCCTGGATGAGCCAGTGTCCCACTGGCGACCGGGCTGGCGCTGAACGTGATGGCGGACAACCTTGTCT  
TTGACGGGTCCCTCCCTGCCTGCCGATGTGCATCGGTACATGAAGATGATCCAGCTGGGGAAAACCGTGCATTACC  
TGCCCATCCTGTTTCATCGACCAAGCTCAGCAACCGCGTGAAGGACCTGATGGTCATAAACCGCTCCACCACCGAGC  
TGCCCTCACCGTGCTCTACGACAAGGTCTCACTGGGGCGGCTGCGCTTCTGGATCCACATGCAGGACCGCGTGT  
ACTCCCTGCAGCAGTTTCGGGTTTTTCAGAGAAAGATGCTGATGAGGTGAAAGGAATTTTTGTAGATAACCACTTAT  
ACTTCTGGCGCTGACCTTCTTTGTTCGACGCTTCCATCTTCTCTTTGATTCTCTGGCCTTTAAAAATGACATCA  
GTTTCTGGAAGAAGAAGAAGAGCATGATCGGCATGTCCACCAAGGCAGTGCTCTGGCGCTGCTTCAGCACCGTGG  
TCATCTTTCTGTTCTGCTGGACGAGCAGACGAGCCTGCTGGTGCTGGTCCCGCGGGTGTGGAGCCGCCATTG  
AGCTGTGGAAGTGAAGAAGGCATTGAAGATGACTATTTTTTGGAGAGGCCTGATGCCCGAATTCAGTTTGGCA  
CTTACAGCGAATCTGAGAGGAAAACCGAGGAGTACGATACTCAGGCCATGAAGTACTTGTACATACCTGCTGTACC  
CTCTCTGTGTGGGGGTGCTGTCTATTCACTCCTGAATATCAAATATAAGAGCTGGTACTCCTGGTTAATCAACA  
GCTTCGTCAACGGGGTCTATGCCTTTGGTTTCTCTTCATGCTGCCCCAGCTCTTGTGAACATAAGTTGAAGT  
CAGTGGCACATCTGCCCTGGAAGGCCTTCACTACAAGGCTTCAACACCTTCAATGATGACGCTTTTGCTTCA  
TCATCACCATGCCCACGTCTCACCGGTGGCCTGCTTCCGGGACGACGTGGTGTCTTGGTCTACCTGTACCAGC  
GGTGGCTTTATCCTGTGGATAAACCGCAGAGTGAACGAGTTTGGGGAGTCTACGAGGAGAAGGCCACGCGGGCGC  
CCCACACGGACTGAAGGCCCGCCGGGCTGCCGCCAGCCAAGTGCAACTTGAATTGTCAATGAGTATTTTTGGAAG  
CATTGGAGGAATTCCTAGACATTGCGTTTTCTGTGTTGCCAAAATCCCTTCGGACATTTCTCAGACATCTCCCA  
AGTTCCCATCACGTCAGATTTGGAGCTGGTAGCGCTTACGATGCCCCACGTGTGAACATCTGTCTTGGTCACAG  
AGCTGGGTGCTGCCGGTCACCTTGAGCTGTGGTGGCTCCCGGCACACGAGTGTCGGGGTTTCGGCCATGTCTCA  
CGCGGGCAGGGGTGGGAGCCCTCACAGGCAAGGGGGCTGTTGGATTTCCATTTCAAGGTGGTTTTCTAAGTGCTCC  
TTATGTGAATTTCAAACACGTATGGAATTCATTCCGCATGGACTCTGGGATCAAAGGCTCTTTCTCTTTTGT  
GAGAGTTGGTTGTTTTAAAGCTTAATGTATGTTTCTATTTTAAATAAAAAAAAAAAAAAAAAA

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**FIGURE 1546**

MWSGRSSFTSLVVGVFVVYVVHTCWVMYGIVYTRPCSGDANCIQPYLARRPKLQLSVYTTTRSHLGAENNIDLVL  
NVEDFDVESKFERTVNVSVPPKTRNNGTLYAYIFLHHAGVLPWHDGKQVHLVSPLTTYMVPKPEEINLLTGESDT  
QQIEAEKKPTSALDEPVSHWRPRLALNVMADNFVFDGSSLPADVHRYMKMIQLGKTVHYLPILFIDQLSNRVKDL  
MVINRSTTELPLTVSYDKVSLGRLRFWIHMQDAVYSLQQFGFSEKDADEVKGIFVDTNLYFLALTFFVAAFHLLF  
DFLAFKNDISFWKKKSMIGMSTKAVLWRCFSTVVIFLFLDEQTSLLVLPAGVGAAIELWKVKKALKMTIFWR  
GLMPEFQFGTYSESERKTEEYDTQAMKYLSYLLYPLCVGGAVYSLNLIKYSWYSLINSEFVNGVYAFGFLFMLP  
QLFVNYKLKSVAHLPWKAFTYKAFNTFIDDVFAFIITMPTSHRLACFRDDVVFLVYLYQRWLYPVDKRRVNEFGE  
SYEEKATRAPHTD

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**FIGURE 1547**

CTTCCCTTTTGCGGCTATCACC GAAGCAGGAGTGGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAG  
CAAGAATCGCAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGACTATGTCTTCCCTCTTTCCAAAGA  
GCTGAGACAGAAGTACAACGTGTGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTA  
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG  
GGAAAAGGCTAATGGCACAACGTCCACGTAGGCATTCACCCAGCAAGGTGGTTATCACTAGGCTAAAAC TGGA  
CAAAGACTGTGAAAAGATCCTTGAACGGAAAGCCAAATCTTGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA  
AGAAACAATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTCGATTAAAAC TTGAAACAAAGAAAAA

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**FIGURE 1548**

CCAGAACACAGGTGTCATGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCG  
TCATTGGACACGTAGATTCCGGCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCTGTTGGCCGAGTGGAG  
ACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCGAA  
ATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAG  
GATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACCTGCTCAG  
GTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTGTATTGGATTGCCACACGGCTCATATT  
GCATGCAAGTTTCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTC  
TTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTAT  
CCACCTTTGGGTCGCTTTGCTGTTCTGTGATATGAGACACACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAG  
AAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCCAGAAAGCTCAGATGGCTAAATGAATATTATCCCTAATA  
C

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**FIGURE 1549**

CGACACAGTAGCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTG  
GTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCATGCTGCTTGAGGCTCTGGACTGCAT  
CCTACCACCAACTCGTCCAAGTACAAGCCCTTGC GCCTGCCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGG  
TAGTGTTCCCTGTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGT  
TACAACAGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTT  
CCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTGCTGGTGACAGCAAAAATGACCCACCAAT  
GGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCTGT  
ATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAA  
TATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTCTGTGA  
TATGAGACACACAGTTGCGGTGGGTGTCATCAAAGC

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**FIGURE 1550**

GCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACT  
ACTGGCCATCTGATCTATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTGAGAAGGAGACTGCTGAG  
ATGGGAAAGGGCTCTTTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT  
GATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTC  
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTT  
GAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA  
ATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA  
GTCAGCACTTACATTAAGAAAATGGCTACAACCCCGACACAGTAGCATTGTGCCAAATCTTGAAGTCCGGTG  
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTG  
GCTTTGCTGTTTCGTGATATGAGACACACAGTTGCGGTGGGTGTC

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**FIGURE 1551**

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTT  
CTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA  
AGGATGGCAATGCCAGTGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAC TGACA  
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCTGTGGCCGAGTGGAGA  
CTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAATCTGTCGAAA  
TGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGG  
ATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG  
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTGTATTGGATTGCCACACGGCTCATATTG  
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC  
TTTGGGTCGCTTTGCTGTTCGTGATATGAGACACACAGTTGCGGTGGG

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**FIGURE 1552**

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA  
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTAT  
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC  
AAGTATGGCTGGGTCTTGATAAACTGAAAGCTGAGCGTGAACTGGTATCACCATTGATATCTCCTTGTGGAAA  
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGGATGTCTACAAAATTGGTGGTATTGGTAGTG  
TTCCTGTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTGCTCCAGTCAACGTTACAA  
CAGAAGTAAATCTGTGCAAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATG  
TCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAG  
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTGTATTGG  
ATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGC  
TGGAAGATGGCCCTAAATCTTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTG



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**FIGURE 1553**

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA  
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGGGCAAGTCCACCACTACTGGCCATCTGATCTAT  
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC  
AAGTATGGCTGGGTCTTGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA  
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACA  
GGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTTTTCTCAAACCCGGTATGGTGGTCACCT  
TTGCTCCAGTCAACGTTACAACAGAAGTAAAAATCTGTGCAAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTG  
GGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCA  
AAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCG  
CTGGCTATGCCCCGTATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG  
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCCTGAAGTCCGGTGATGCTGCCATTGTTGATATGG  
TTCCTGGCAAGCCC

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**FIGURE 1554**

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA  
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGGGCAAGTCCACCACTACTGGCCATCTGATCTAT  
AAATGCAGTAGCATCGACAAAAGAACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACT  
ATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTC  
CCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTT  
CTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCCTACAGC  
CAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTA  
GCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGA  
TGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCA  
ACTCGTCCAAGTACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCT  
GTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAA  
GTTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTGCTCGTGGCAACGTTGCTGGTGACAGCAAAAAT  
GACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

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**FIGURE 1555**

TATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCT  
TTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGG  
AAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATT  
ACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCT  
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTAAAC  
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATT  
AAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAG  
CCAAGTGCTAACATGCCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTG  
CTTGAGGGCTCCAGTCAACGTTACAACAGAAGTAAATCTGTGCAATGCACCATGAAGCTTTGGGTGAAGCTCT  
TCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGA  
CAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG

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**FIGURE 1556**

GTCGGCGTGTCTGAGTGGCTCTTCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG  
ATCACCAGGTGTTTGGCTTGGTTCGGTTCTTATTTCTCGCCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG  
GTGGCGTTCCGCGACGCGGACATGCAGCGGGCCCACTATAAGACGGACTGGCACCCTACAACCTGCGGCGGAAG  
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGCGGGCGCAGCGGGCCGTGCGGGAGGAG  
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGCAGTAAGAAGTTTGCTCTTTCAACGCCTACGAGAACCAC  
CTCAAGTCCCGGCGTCACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT  
GAAAAGAAGTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGGCC  
ATCAAGGCCCAGCCGTCCATGTCTCCCAAGAAGGCGCCCCAGCGCCTGCAAAGGAGGCCAGGAATGTCGTGGCC  
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGGCTCCAGTGGTTTGAACAG  
CAGGCGAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGG  
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA  
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGGCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT  
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCCTGATATAGAATATCTT  
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAGTTGGTGTGGCAAGATTGCTTGTGGTGCAACGAG  
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA  
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGAG  
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG  
CCTTCTGGTGCCAGAGTGGGTCATCGCTCCTTGATGAGATACTACAAACAGCGATTGGCTTGTCAGAGCTGTG  
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA  
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAAGGATGAAATCAAAATGGATGCTGAAGACAGGA  
ATGAAGAACAATGCCACCAAGCAGATGCACTTTCGGGTCCAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA  
TCATCTCCTGCCCAAGTTTCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCCCTTTTGCTGC  
TACTTCATTGCTTCTGACCTAATAATAAAAGTTAGAACCAT

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**FIGURE 1557**

GAAC TCCAAGATGGGAGGCAAGCTCAGCAAGAAGAAGGGCTACAATGTGAACGACGAGAAAGCCAAGGAGAA  
AGACAAGAAGGCCGAGGGCGCGGCGACGGAAGAGGAGGGGACCCCGAAGGAGAGTGAGCCCCAGGCGGCCGAGA  
GCCCCGCCGAGGCCAAGGAGGGCAAGGAGAAGCCCGACAGGACGCCGAGGGCAAGGCCGAGGAGAAGGAGGGCGA  
GAAGGACGCGGCGGCTGCCAAGGAGGAGGCCCCGAAGGCGGAGCCCCGAGAAGACGAGGGCGCGGCAGAGGCCAA  
GGCTGAGCCCCCGAAGGCGCCCGAGCAGGAGCAGGCGGCCCCCGGCCCGCTGCGGGCGGCGAGGCCCCCAAGC  
TGCTGAGGCCGCGCGGCCCGGCCGAGAGCGCGGCCCTGCCGCCGGGAGGAGCCCAAGCAAGGAGGAAGGGGA  
ACCCAAAAAGACTGAGGCGCCCGCAGCTCCTGCCGCCAGGAGACCAAAAGTGACGGGGCCCCAGCTTCAGACTC  
AAAACCCGGCAGCTCGGAGGCTGCCCCCTCTTCCAAGGAGACCCCGCAGCCACGGAAGCGCCTAGTTCCACACC  
CAAGGCCCAGGGCCCCCGCAGCCTCTGCAGAAGAGCCCAAGCCGGTGGAGGCCCGGCAGCTAATTCCGACCAAAAC  
CGTAACCGTGAAAGAGTGACAAGGACAGCCTATAGGAAAAACAATACCACTTAAACAATCTCCTCTCTCTCTCT  
CTCTCTCTCTCTCTATCTCTCTCTCTATCTCCT  
ACTAACTTGTTTCAAATTGGAAGTAATGATATGTATTGCCCAAGGAAAAATACAGGATGTTGTCCCATCAAGGGA  
GGGAGGGGGTGGGAGAATCCAAATAGTATTTTTGTGGGGAATATCTAATATACCTTCAGTCAACTTTACCAAGA  
AGTCCTGGATTTCGAAGATCCGCGTCTGAAAGTGCAGTACATCGTTTGTACCTGAAACTGCCGCCACATGCACTC  
CTCCACCGCTGAGAGTTGAATAGCTTTTCTTCTGCAATGGGAGTTGGGAGTGATGCGTTTGATTCTGCCCACAGG  
GCCTGTGCCAAGGCAATCAGATCTTTATGAGAGCAGTATTTTCTGTGTTTTCTTTTAAATTTACAGCCTTTCTTA  
TTTTGATATTTTTTAAATGTTGTGGATGAATGCCAGCTTTCAGACAGAGCCCACTTAGCTTGTCCACATGGATCT  
CAATGCCAATCCTCCATTCTTCCTCTCCAGATATTTTGGGAGTGACAAACATTCTCTCATCCTACTTAGCCTAC  
CTAGATTTCTCATGACGAGTTAATGCATGTCCGTGGTTGGGTGCACCTGTAGTTCTGTTTATTGGTCAGTGAAA  
TG

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**FIGURE 1558**

MGGKLSKKKKGYNVNDEKAKEKDKKAEGAATEEEGTPKESEPQAAAEPAEAKEGKEKPDQDAEGKAEEKEGEKDA  
AAAKEEAPKAEPEKTEGAAEAKAEPKAPQEQAAPGPAAGGEAPKAAEAAAAPAESAAPAGEEPSKEEGEPKK  
TEAPAAPAAQETKSDGAPASDSKPGSSEAAPSSKETPAATEAPSSTPKAQGPAAEAEPKPVEAPAANSDQTVTV  
KE

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**FIGURE 1559**

CGAGAGTCGTCGGGGTTTCCTGCTTCAACAGTGCTTGGACAGAACCTGGCGCTCGTCCCCACACCGGCCGGCTG  
CCCATAGCCAGCCCTCCGTCACCTCCTCACC CGCAGCCGCTCTCCTTAGTCGCCGCCATGACGACCGCGTCCAC  
CTCACAGGTGCGCCAGGACTACCACCAGGACTAAAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTACGCC  
TCCTGCGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTT  
CTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAAGGAGGTGGCCGAATC  
TTCCTTCAGGATATCAAGAAACCGGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTACAT  
TTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCATTTGTGT  
GACTTCATTGAGACACATTACCTGAATGAGCAGGTCAAAGCCATCAAAGAATTGGGTGACCACATGACCAACTTG  
TGCAAGATGGGAGCACCCGAATCTAGCTTGGCGGAATATCTCTTTGACCAGCACCCCTGGGAGACAGTGATAAT  
GAAAGCTAAGCCTCAGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCTGGTCACCAAGG

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**FIGURE 1560**

MSYYFDRDDVALKNFAKYFLHQSHEEREHAEKLMLQNQGGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVN  
QSLLELHKLATDKNDPHLCDFIETHYLNEQVKAIKELGDHMTNLCKMGAPESSLAEYLFQHTLGDSDNES



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**FIGURE 1561**

ATGCCCAAAACGATCAGTGTGCGTGTGACCACCATGGACGCAGAGCTGGAGTTTACCATCCAGCCCAACACCACC  
GGGAAGCAGCTATTTGACCAGAAGGTGACTGCCCAGGAAGTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTTCAGT  
GCCAAGTTCTACCCTGAGGATGTGTCCGACCGAGGAATTGATTCAGGACACCACTCAGCGTCTGTTCCCTTCTGCA  
ATGAAAGAGGGGCATTCTCAGTGATGATATTTACTGCCGGCCTGAGACTGCTGTGCTGCTGGCCTCCCATGCTGTC  
CAGTCTAAGTATGGGAACTTCAGTAAGGAGGTGCATAAGTCTGGCTACCTGGCCGGAGACGAGTTGCTCCACAG  
AGAGTCCTGGAACAGCACAACTCAGCAAGGACCAGTGGGAGGAGCGGATCCAGGTGTGGCATGAGGAACACCGT  
GGCATGCTCAGGGAGGATGCTGTCTTGGAGTATCTGAAGATTGCTCAAGATCTGGAGATGTATGGTGTAACTAC  
TTCAGCATCAAGAAAAAGAAAGGCTCAGAGCTGTGGCTGGGGGTGGATGCACTGGGTCTCAACATCTATGAGCAG  
CATGACAGACTAACTCCCAAGATAGGCTTTCCCTTGGAGTGAAATCAGGAGCATTCTTTCAATGATAAGAACTTT  
GTCATCAAGCCCATTGACAAAAGAGCCCCGGACTTTGTCTTCTATGCTCCCTGGCTGCAGATTAACAAGCGGATC  
TTGGCCTTGTGCATGGGGAACCGTGAACATATACATGCGCCGTCGCAAGCCTGACACCATTGAGGTGCAGCAGATG  
AAGGCACGGGCCCCGGGAGGAGAAGCACCAGAAGCAGATGGAGCGTGCTATGCTGGAAAATGAGAAGAAGCGTGAA  
ATGGCAGAAAAGCAGAAAGAGAAGATTGAACGGGAGAAGGAGCTGATGGGAGGCTGAAGCAGATCGAGGAACAG  
ACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACCCGTAGGGCTCTGGAACCTGGGAAGGAACGGAAGCATGCC  
CAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCTTCAAGAAGCTGAAGAGGCCAAGGAAAAGAAAGAGAGTGAGGCT  
ATGGAGTGGCAGCAGAAGGCCCAGATGGTACAGGAAGACTTGGAAGAAGACCCGTGCTGAGCTGAAGACTGCCATG  
AGTACATCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCT  
GACCTACGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAATGTACCCTGAGGCAGAGAAGAAATGAGCGT  
GTGCAGAAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAGTGCCCGAGATGAGTCCAAGAAGACTGCCAATGAC  
ATGATCCATGCTGAGAACAIGTGA

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**FIGURE 1562**

ATGCCGCCCTCGCCTGCGTCCTGCGGCCGTCCCGAGGTGTCACGCTGTCAACAACACAAAGTCGTAGTTGACGTC  
GACCATGAGCACTTAGCAGGAGGGCACGCACAGGGACTTGTGCCC GGCGGGTCCAGCTCCTGCACCTTCAGCTG  
CCACTCCATCCTCTGCACAGCGTTCAGGGCCGCAGCCTCGTGCTGCTGCCGCATGAGGAGGAAGAAGCTAGATGAA  
CTTATGAGTGAAGAAGCCTATGAGAAATACATAAAATCTATTGAGGAGTGA

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**FIGURE 1563**

MPPSPASCGRPEVSRCCQHKVVVDVDHEHLAGGHAQGLVPGGVQLLHLQLPLHPLHSVQGRSLVLLPHEEEELDE  
LMSEEAYEKYIKSIEE